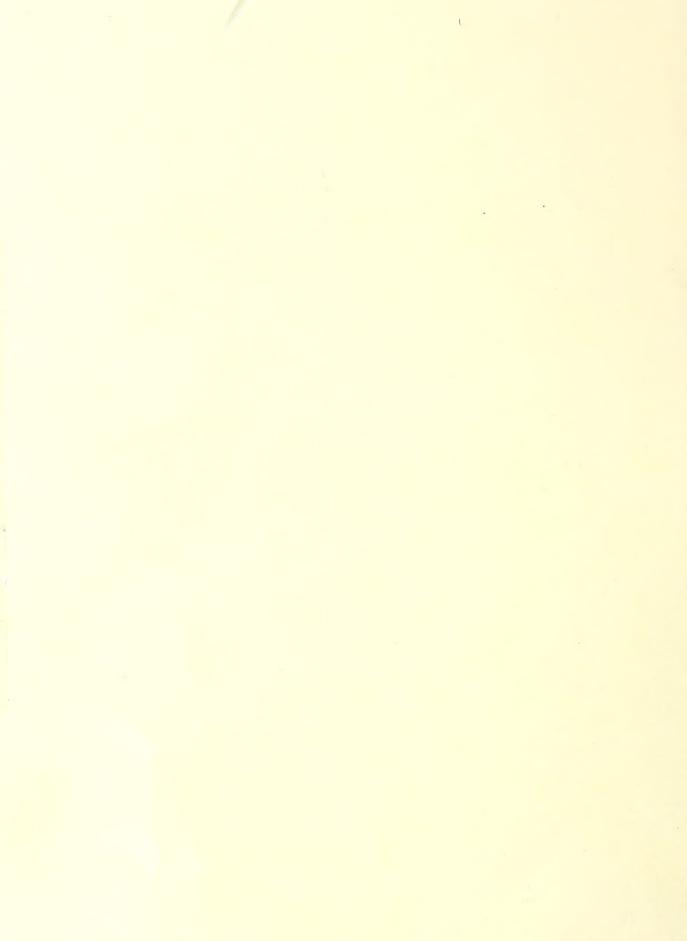
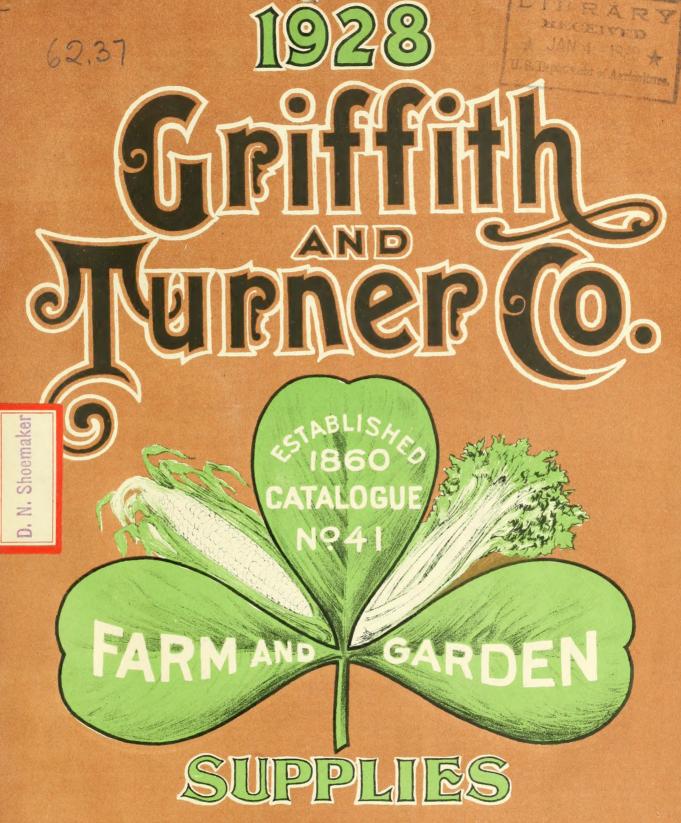
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Do not assume content reflects current scientific knowledge, policies, or practices.





GENERAL OFFICES. 205-215 N. PACA ST.

BRANCH HOUSE, 338 N.GAYST.

BALTIMORE, MD.

D. N. Shoemaker

UR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly

and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

If for any reason you change your postoffice address, please advise us, giving your old address as well as your

new one, stating which is the old and new one.

By writing out your order on the Order Sheet sent with each Catalogue you will greatly facilitate our work. Extra Order Sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

3	PARCEL	POST	RATES	
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22	.28	50	93	1.36
94	.30	54	1.01	1.48
25 26	.31	58	1.09	1.60
27 28	.33	60	1.13	1.66
29 30	.35	64	1.21	1.78
31	.37	68	1.29	1.90
32 33	.38	70	1.33	1.96
34 35	.40	74	1.41	2.08
36	.42	78	1.49	2.20
37 38	.43		1.53	2.26
39 40	.45	84	1.61	2.38
41	.47	88	1.69	2.50
42	.48	92	1.73	2.56
44	.50	94	1.81	2.68
46	.52	98	1.89	2.80
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TO COUNTRY MERCHANTS

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates.

Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

Prospective Customers who are not rated in the Commercial Agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. SEND FOR PRICES. Filling Orders.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders and deliver all goods to any railroad or steamboat free of charge.
We charge for cotton bags, 2 bushel, 40 cents each.

HOW TO REMIT .- Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter.

We deliver by PARCEL POST FREE to any Postoffice in the United States all cash orders for Flower and Garden Seeds up to 1/4 lb.

No seed delivered free unless order is accompanied with the cash. For postage on Peas,

Beans, Corn, Field Seeds in large quantities and All Merchandise, consult table below.

ON EVERY ORDER be sure to SIGN YOUR NAME and give your address PLAINLY, as we frequently receive orders lacking either or both; also give full shipping instructions. State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners and all purchasers of Seeds large quantities should submit us a list of their wants and we will name them special

W	EIG	HT OF AGRICULTURAL SEED PER BUSHEL AND QUANT	ITY	U	SUALLY
We	igh	t per SOWN PER ACRE		Ous	ntity
	Bush				Acre
		Barley, Aug. to Nov.		P	75 lbs.
	66	Broom Corn, in hills		to	8 ats.
48	66	Buckwheat, June to Aug. 15	×	-	1 bu.
60	66 '	Clover, Alfalfa, Mch., Apr. & Aug. to Oct. 15		to	25 lbs.
60	66	Clover, Alsike, Feb., Mch. & Aug			8 "
60	66	Cloyer, Crimson, July to Sept			15 "
60	66	Clover, Sweet, Mch. & Apr., Aug. to Sept	15	to	20 "
60	6.6	Clover, Japan, Mch. to May		to	20 "
60	66	Clover, Red, Feb. & Mch		to	12 "
60	66	Clover, White, Aug. & Sept., Mch. & Apr. (alone)			6 "
	4.6	Clover, White, Aug. & Sept., Mch. & Apr. (with other grasses)			2 "
21	6.6	Crested Dog's Tail, Aug. & Sept., Mch. & Apr			25 "
20	6.6	Creeping Bent, Aug. & Sept., Mch. & Apr			50 "
56	66	Corn, for soiling, May	1	to	2 bus.
24	4.6	English or Perennial Rye, Mch. & Apr., Aug. & Sept	100	100	60 lbs.
20	66	Evergreen Lawn Grass, Mch. & Apr., Aug & Sept	3	to	4 bus.
56	45	Flax, for seed, Mch. & Apr.			1 bu.
56	66	Flax, for fibre		to	3 bus.
56	66	Field Corn (in hills), May		to	6 ats.
50	44	German Millet, May to Aug. 1st	50	to	75 lbs.
50	66	Hungarian Millet, May to Aug. 1st		-	48 "
44	66	Hemp			22 "
20	66	Italian Rye Grass, Apr. & May, Aug. & Sept			50 "
14	66	Kentucky Blue, Apr. & May, Aug. & Sept			42 4
22	66	Meadow Fescue, Apr. & May, Aug. & Sept			50 "
7	44	Meadow Foxtail, Apr. & May, Aug. & Sept			30 "
14	44	Orchard Grass, Apr. & May, Aug. & Sept			42 "
32	66	Oats Spring Mch & Apr.			75 "
32	66	Oats, Spring, Mch. & Apr	50	to	75 "
14	66	Red Top, unhulled, Apr., May, Aug. & Sept			42 "
32	66	Red Top, Fancy, Apr., May, Aug. & Sept			12 "
60	4.6	Rape, Feb. to Aug	4	to	6 "
60	66	Rve. Aug. to Nov	60		80 "
12	64	Sheep Fescue, Apr., May, Aug. & Sept			30 "
50	64	Sorghum (for Fodder), May & June			50 "
50	66	Sorghum (in Drills), May & June			30 "
10	66	Tall Meadow Oat Grass, Apr., May, Aug., Sept			50 "
45	66	Timothy, alone, Apr., May, Aug., Sept			20 "
	46	Timothy with other grasses			8 "
		(Together for an acre: Red Clover, 6 lbs.; Timothy, 12 lbs.)			
60	66	Wheat, Sept. to Nov. 15	100	to	120 "
	66	Teosinte, May & June	4	to	5 "
	66	Vetch, winter, Aug. to Nov. (broadcast)		100	30 "
30	44	Wood Meadow, Apr., May, Aug. & Sept			30 "

[&]quot;We give no warranty, expressed or implied, as to description, purity, productiveness or any other matter of any seeds, or bulbs we sell, and we will not be in any way responsible for them."

ORDER SHEET

GRIFFITH & TURNER CO.

205-215 N. PACA STREET

BRANCH HOUSE, 338 N. GAY ST.

BALTIMORE, MD., U.S.A.

HOW TO SEND MONEY: By Mail, Express, P. O. Money Order, Registered Letter or Bank Draft. For small amounts send Postage Stamps.

We deliver by Parcel Post free to any Post-office in the United States, all cash orders for Flower and Garden Seed at Catalog Price, except Peas, Beans, Corn and Field Seeds. No seed delivered free unless the order is accompanied with the cash. For Peas, Beans, Corn and Field Seeds, add to Catalog Price 8 Cents a pint and 10 cents a quart. For each additional quart add at the rate of 2 cents a quart, for distances not over 150 miles from Baltimore. For other seed and merchandise rate consult inside of front cover of Catalog.

VERY IMPORTANT. No matter how often you have written us, always give your full address, and write your Name, Post-office, County and State very plainly. We frequently get orders without address or signature.

We give no warranty, expressed or implied, as to description, purity, productiveness, or any other matter of any seeds, bulbs or plants we sell, and we will not be in any way responsible for them.

ORDER FLOWER SEEDS BY NUMBERS. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Your Name Post-office County	Route No	Express Money Order Bank Draft	Post-office Order \$		
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ANNUAL

1928--CATALOGUE--1928

BEST GOODS

No. 41

LOW PRICES

SUGGESTIONS FOR THE FAMILY GARDEN

DRAW A DIAGRAM OF THE GARDEN. Locate the crops which take the most room (corn, potatoes, vines of the cucumber family), then locate the other crops, grouping them as follows: Peas, potatoes beans; (asparagus, rhubarb, herbs;) parsnips, turnips, salsify; beets, carrots, onions; cabbage, cauliflower; okra, tomatoes, eggplant, peppers; spinach, swiss chard, radish, salad plants. Vegetables should be planted in rows. Sow Indoors or in Hotbed January 15: Forglove, pansy, Iceland poppy.

ORDER SEEDS. QUANTITY OF SEED FOR A FAMILY OF EIGHT: Brussels sprouts, carrot, turnip, 1 oz; onion, spinach, okra, 2 oz.; Cauliflower, eggplant, peppers, 2 pkgs.; cucumbers, 25 hills, 1 oz.; squash, 20 hills, 1 oz; string beans, 2 qts.; lima beans, 1 qt.; peas, 4 qts.; corn, 3 pts. (3 plantings); lettuce, 1 oz.; buy GARDEN TOOLS; Wheelbarrow, roller, watering-can, sprayer, spade, fork, wheel hoe, common hoe, weeder, rake, scythe, sickle, trowel.

WHEN TO SOW: Early crops between March 15 and May 1. Main crops about May 5. Cover seeds twice or three times their thickness. Distances: drills from 1 to 2 feet apart; corn, 3 feet; vines of the cucumber family, 4 feet; tomatoes. 3 feet.

SOW INDOORS MARCH 1 OR IN HOTBED: Cabbage, endive, eggplant, lettuce, peppers, tomato. .SOW INDOORS MARCH 1 OR IN HOTBED: Sweet-alyssum, balsam, calendula, coreopsis, petunia, sweet-william, zinnia.

SOW CUT OF DOORS ETTWEEN MARCH 15 AND APRIL1: Beets, cabbage, carrots, kohlrabi, lettuce, onions, parsley, parsnips, radish, salsify, spinach, turnips, sweet-peas.

SOW OUT OF DOORS APRIL 15: Beets, cabbage, carrots, Swiss chard, celery, cornsalad, garden cress, endive, lettuce, okra, onion, parsley, parsnips, peas, radish, salsify, spina.ch, sage, thyme, turnip. SOW OUT OF DOORS APRIL 15: Sweet-alyssum, calendula, candytuft, corn-flowers, carnation, forget-me-not, larkspur, marigold, mignonette, Iceland poppy, snapdragon, sweet-william, zinnia. Set out roots of dahlias, cannas, gladiolas, elephant ears, tube roses and plants of hardy chrysanthemums.

SOW OUT OF DOORS MAY 15: Beets, beans, cabbage, carrots, corn, salad, chicory, cucumbers, endive, tomatoes, lettuce, lima beans, muskmelon, peas, peppers, potatoes, pumpkin, radish, sweet corn, Swiss chard, spinach, squash, sage, watermelon. SOW CUT OF DOORS MAY 15: China aster, balsam, coreopsis, cosmos, foxglove, morning-glory, nasturtium, petunia, phlox, drummondii, sunflower. Vegetables and flowers should be transplanted from hotbed to garden about May 10. Flowering shrubs should be pruned immediately after they have blossomed. Fruit trees should be sprayed when the blossoms fall.

SOW EARLY IN JUNE: Beans, beets, cucumbers, lettuce, peas, radish, sweet corn. Ten week Stock, pansy. Roses should be grown on a southern exposure. The soil should be a rich loam. Set out ever-blooming roses the middle of April; Hybrid, Perpetual and Hardy Roses the middle of October. Rose bushes should be set 2 feet apart, sprayed in April and May, and pruned in March. The rose-bed should be well covered the last of November, and uncovered as soon as danger of frost is past.

FIRST WEEK IN JULY: Beans, carrots, lettuce, radish, sweet corn, turnips. BORDEAUX MIXTURE is excellent for all kinds of blight. ARSENATE OF LEAD will destroy insects that chew. DIRECTIONS: 2 to 3 pounds to 50 gallons of water. LEMON OIL CO.'S STANDARD INSECTICIDE WILL KILL PLANT LICE OF EVERY DESCRIPTION. AUGUST 1, LAST PLANTING OF BEANS AND PEAS.

SET OUT BULBS EARLY IN FALL: Phlox (perrennial), peonies. Plant spring-flowering bulbs: crocus, daffodils, lily of the valley, narcissus, snowdrops, tulips, hyacinths. Spring-flowering bulbs should be planted about 4 inches deep. Plant bulbs of German Iris and Japanese Iris. IN THE WINDOW GARDEN: Roman hyacinths, Chinese sacred lilies, narcissus and crocuses can be grown in sand and water.

FERTILIZER for general use. Quantity, 500 lbs. to the acre, or 1 oz. to the square yard. Where a rich soil is required, 1,250 lbs. to the acre, or 4 oz. to the square yard. In artificial fertilizers there are no weed seeds. GENERAL

HINTS; BONE-MEAL AND SHEEP MANURE are excellent for lawn, garden, and orchard; LIME for heavy, damp soil.

BONE-MEAL CR SHEEP MANURE AND NITRATE OF SODA in equal parts for asparagus. IN THE FLOWER GARDEN in the spring a handful of bone-meal or sheep manure may be worked into the soil about a plant with marked results. In midsummer, if flowers are few, rake in some nitrate of soda and a little bone-meal. SHEEP MANURE is a good fertilizer for roses.

The following table will give you the usual time to sow different varieties of seeds in the Baltimore section. Also, quantity per acre and distances to sow apart in rows. Of course, in Garden Culture a great many seeds could be planted closer together than mentioned, as this table is submitted for Field Culture. For other instructions, see catalog.

Variety	Time to Sow	Quantity Per Acre	Distance Apart in Rows	Distance Between Rows	No. Lbs. Per Bushel
Artichokes, tubers	Mar., Apr	c to o by	10 in	2 . f+	50 1bc
Asparagus, seed	Mar Apr	10 to 20 lbs '	4 in	18 in	60 "
Asparagus, roots	Mar., Apr Feb., Mar., Oct	8.000 roots	12 in	3 1/2 ft	
Beans, Dwarf Wax	Apr. to Aug. 15	60 lbs	6 in	2½ ft to 3 ft	60 "
" Dwarf G. P					
' Dwarf Lima	May, June, July	20 lbs	18 in. to 2 ft	3 ft	60 "
" Pole Lima	May, June	15 lbs	3 ft	4 ft	60 "
	125			0 64	
Beets, Table	Mar. to Aug Apr., May, June	4 to 6 lbs	3 in	21/ +0 2 ft	
Cabbaga Farly	Fob Mar Apr Sent	4 to 6 lbs	6 III	12 72 10 3 11	
Cabbage, Early. Cabbage, Late. Cabbage Plants, Early.	May	6 07			
Cabbage, Late	Mar Apr Nov	10.000	18 in	3 ft	
Cabbage Plants, Late	Tuly	8 000	2 to 3 ft	3 to 3 1/2 ft	
Collards	Mar Apr	1/6 lb	18 in	3 ft	
Cauliflower	Mar., Apr	12.13			
Cauliflower Carrot Celery, Seed. Celery, Plants.	Mar. to June	3 to 4 lbs	3 to 4 in	2 ft	
Celery, Seed	Feb., Mar	3 lbs	2 to 4 in	1½ to 2ft	
Celery, Plants	July	16,000	6 to 12 in	4 ft	
Corn, Sugar	Apr. to July 4	10 to 12 lbs	12 to 18 in	3 to 3½ ft	44 ''
Corn, Field (drill)	Apr. to July 1	12 to 14 lbs	12 to 18 in	3½ to 4½ ft	56
Cetery, Flants. Corn, Sugar. Corn, Field (drill). Corn, Field (checkered). Cucumber Eggplant, Seed. Eggplants,	Apr., to July	10 to 12 lbs	3 ½ to 4 ft	3½ to 4 it	36
Cucumper	Apr. to June	2 to 3 lbs	2 It	4 to 5 11	40
Eggplant, Seed	Feb., Mar	6 OZ	0 64	2 64	
Kale	May, June	5,000	Dage desart	Prondenst	
Kale, Winter					
Lettuce, Seed		9 ibc	Broadcast	Broadcast	
Lettuce, Plants	Feb. to June and Aug.	2 105	Broadcast		
	to Nov	20,000 to 25,000	8 to 12 in	18 to 24 in	
Muskmelon	May. June	2 lbs	4 to 6 ft	4 to 6 ft	
Melons, Water	May, June	2 lbs	8 to 10 ft	8 to 10 ft	
Okra		8 to 10 lbs	8 to 10 in	2 1/4 to 3 ft	
Onion Seed for Large Bulbs	Mar., Apr	4 to 5 lbs	3 in	15 to 24 in	
Onion Seed for Sets	Mar., Apr	40 lbs		12 to 18 in	
Onion Sets	Feb. to May and	10 1		10 to 04 in	32 "
Parsnip	Sept. and Oct	10 bus	4 in	18 to 24 m	32
Parsnip Parsley		4 to 6 lbs			
Mustard	Mar., Apr				
Peas Garden Smooth	Fob to Mar	00 1bg	9 in	2 ft	60 "
Mustard Peas, Garden, Smooth Peas, Garden, Wrinkled	Mar to May	90 lbs	2 in	3 ft	56 "
Pepper, Seed	Feb Mar	8 07	2 111		
Pepper, Plants	Morr Tuno	10.000	18 in	30 in	
Potatoes, Irish, Early	Mar, AprJune to Aug. 1 May 10 June 15	11 bus	15 to 18 in	2½ to 3 ft	60 "
Potatoes, Irish, Late	June to Aug. 1	11 bus	15 to 18 in	2½ to 3 ft	60 "
Potato, Sweet, Plants	May 10 June 15	7,000 to 8,000	18 in	3½ ft	
Pumpkin	May, June	2 lbs	6 to 8 ft	6 to 8 ft	
Radish	Feb. to May and				
G-1-:4	Aug. to Sept Mar. to May 10	15 to 20 lbs		0 84	
Salsify	Mar. to May 10	6 to 8 lbs	3 to 4 in	2 It	WITH SERVICE
Spinach, (drills)	Feb., Mar., Apr. and			9 in	
Spinach, Broadcast	Aug. to Nov	20 to 25 lbs	2 in	9 111	
spinach, Broadcast	Feb., Mar., Apr. and	25 to 30 lbs	Drag donat	Broadcast	
Squash	Apr., May, June	20 to 30 IDS	1 ft	4 ft	
Tomato, Seed	Feb to Tune	6 07	1 10		
Tomato, Plants	May to July	3 000	3 to 4 ft	4 ft	
Turnip	July 1 to Sept 15	1 to 11% lbs.	4 in	2 ft	
Turnip, (Broadcast)		2 lbs	Broadcast	Broadcast	are Clark
	1 to Sept. 10				
				ARBERI	

FURTHER SUGGESTIONS FOR THE FLOWER GARDEN

	Sweet	Peas can be planted out Cutdoors in May where the	doors in March.	
Sweet Alyssum	Clarkia	Gaillardia	Marigold .	Poppy
Calendula	Early Cosmos	Godetia	Nasturtium	Portulaca
Candytuft	Chinese Pink	Gourds	Petunia	Verbena
Bachelors Button	California Poppy	Larkspur	Phlox	Zinnia

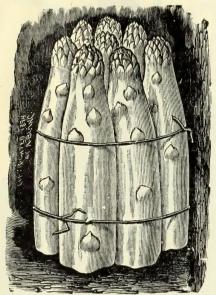
Carendula	Early Cosmos	Godetia	Nasturtium	Verbena
Candytuft	Chinese Pink	Gourds	Petunia	
Bachelors Button	California Poppy	Larkspur	Phlox	Zinnia
Annual Chrysanthemum				
	Sow indoo	rs in March and transpl	lant in May.	
Asters	Carnation	Dahlia	Petunia	Wallflower
Antirrhinum	Heliotrope	Pansy	Salvia	
	Perennials	can be sown from June	until September	
Coreopsis	Gaillardia	Phlox	Pyrethrum	Sweet William
Chrysanthemum	Hollyhock	Oriental Poppy	Scabiosa	Wallflower
Delhpinium	Myosotis			
	For H	anging Baskets or Wind	low Boxes.	
Alyssum	Nasturtium	Oxalis	Fuchsia	Geraniums
Begonia	Petunia	Tradescantia (Wander-	Thunbergia	
Lobelia	Pansy	ing Jew)		

Lobelia	Pansy	ing Jew)		
		For Shady Places.		The second of the second
Balsam	Coreopsis	Lobelia	Forget-me-not	Begonia
Cowslip	Foxglove	Mimulus	Pansy	Bellis
		Annuals for Cutting.		
	Selected for t	their long stems and good	keeping qualities.	
Antirrhinum	Calliopsis	Gaillardia	Scabiosa	Sweet Peas
Asters	Clarkia	Larkspur	Stocks	Zinnias
Candytuft	Cosmos	Marigold		
Canaytare		For the Children's Gard	len	
Canary Bird Flower	Fancy Gourds	Balloon Vine	China Pinks	Morning Glory
Cockscomb	Foxglove	Snapdragon	Balsam or Lady's Slippe	r
COCKSCOMO	I OMBIO.C	water bar and a second		



3

ASPARAGUS



PALMETTO ASPARAGUS

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row.

WASHINGTON ASPARAGUS.—This variety is the result of careful breeding by the U. S. Department of Agriculture, with the object of eliminating rust. A dark green color.

PALMETTO.—A very early maturing variety, producing an abundance of very large, deep green shoots.

MAMIJOTH WHITE.—Produces large white shoots six inches above the surface; fine quality.

BARR'S MAMMOTH.—The stalks are very large, and retain their thickness completely up to the top of the shoots; light in color.

CONOVER'S COLOSSAL.—A mammoth green sort of the largest size and of good quality. One of the best known and most generally cultivated varieties.

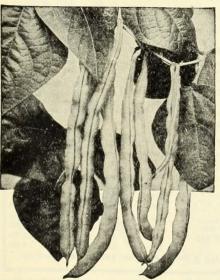
ASPARAGUS SEED	Pkt.	Oz.	1/4 Lb.	Lb.
Palmetto	\$0.10	\$0.15	\$0.30	\$.75
Conover's Colossal	10	.15	.30	.75
Barr's Mammoth	10	.15	.30	2.00
Washington	10	.20	.65	.75

ASPARAGUS ROOTS.—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 8,000 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants 15 inches apart. In field culture rows are placed four feet apart.

ASPARAGUS ROOTS-(Postage Extra)

100	1,000	100	1,000
PALMETTO	\$9.50	BARR'S MAMMOTH\$1,25	\$9.50
WASHINGTON 1.75	12.00	CONOVER'S COLOSSAL 1.25	9.50

BEANS—POLE OR RUNNING



KENTUCKY WONDER POLE BEANS

These are of strong, running growth, and need stout poles on which to climb. They require a longer season in which to mature than do the bush varieties, but by reason of their stronger growth are more productive, and growing on poles are more easily gathered.

LAZY WIFE—Large, pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to pole; enormously productive; splendid either as a snap or shell bean.

KENTUCKY WONDER, OR OLD HOMESTEAD—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length; nearly round when young, and very crisp.

SPECKLED HORTICULTURAL, OR WREN'S EGG-An old favorite for both snap-shorts and dry beans.

BEANS-POLE OR RUNNING

(about)	(1 pt.)	(1 qt.)	(1 pk.)	(1 bu)
Beans by Weight	1 lb.	2 lbs.	15 lbs.	60 lbs
LAZY WIFE	\$.25	\$.50	\$2.75	\$11.00
KENTUCKY WONDER	.25	.50	2.75	11.00
SPECKLED HORTICULTURAL POLE or				
WREN'S EGG	.25	.50	2.75	11.00

Add for postage, 8c. per lb., 10c for 2 lbs.

Ask for prices by the bushel.

BEANS

Dwarf or Bush-Wax Podded

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

IMPROVED RUSTPROOF GOLDEN WAX

This is the handsomest and hardiest of all the Wax Beans. The Pods are straight, long and thicker than the ordinary Golden Wax, much superior in ouality, absolutely rustproof and sure to become a favorite Wax Bean; in fact it has already gained great popularity with growers.

SURE CROP STRINGLESS WAX.—Recently introduced by the largest bean grower and originator of new varieties in this country. Entirely stringless, black-seeded, thick, flat yellow pods. The most desirable sort for canning.

DWARF PROLIFIC BLACK WAX

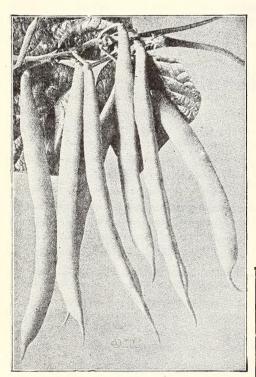
Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics, Very tender.

WARDELL'S KIDNEY WAX BEAN

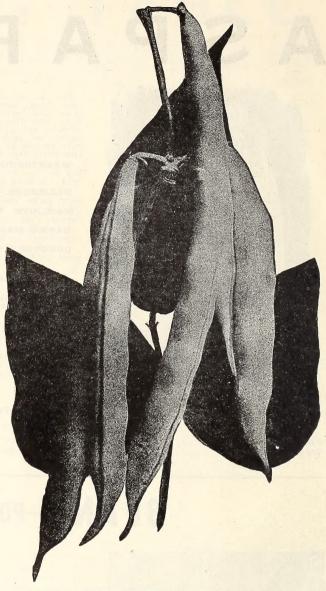
This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of an unusually fine quality.

CURRIE'S RUSTPROOF BLACK WAX

For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequaled.



CURRIE'S RUSTPROOF GOLDEN WAX



NEW BALTIMORE STRINGLESS WAX

Black seeded, early: thick flat, yellow pod. No strings. Have appearance of Currie's Rustproof Wax, but are better cropper, and absence of strings make them much more desirable for canning and other uses.

NEW PENCIL POD WAX BEAN

Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties.

BEANS BY WEIGHT

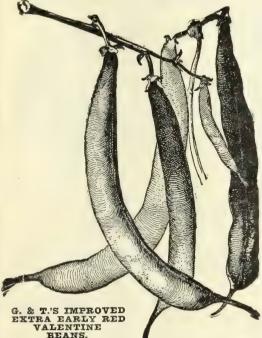
1 pound equals about 1 pint 2 pounds equal about 1 quart 15 pounds equal about 1 peck 60 pounds equal about 1 bushel

WAX POD BUSH BEANS (about) (1 pt.) Beans by Weight 1 lb. IMPROVED RUSTPROOF GOLDEN WAX .\$.25 SURECROP STRINGLESS WAX	2 lbs.	1 pk.) . (1 bu.) 15 lbs. 60 lbs. \$2.75 \$11.00 3.00 12.00 3.25 12.00
WARDELL'S KIDNEY WAX	.50 .50	3.25 12.00 3.00 12.00 3.25 12.00
NEW PENCIL POD WAX	.50 for prices	3.25 12.00 in quantity.



Beans—Green—Podded Bush

The green podded dwarf sorts are perhaps the most important class of garden beans and are probably more extensively used for snaps than the wax podded varieties, although the latter are considered by many as the more attractive in appearance. The green podded sorts are as a rule the more productive, being less sensitive to unfavorable conditions of soil and climate and of late years have been less susceptible to bean diseases.



G. & T. CO.'S EXTRA EARLY RED VALENTINE (Specialty).—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean.

The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition

BLACK VALENTINE.—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome approximation. handsome appearance.

EXTRA EARLY BOUNTIPUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the 'ast in the fall. Absolutely stringless, very tender and of delicious flavor.

EXTRA EARLY REFUGEE .-- It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier.

REFUGEE, or 1000 TO 1.

A medium to late variety, very productive and largely grown for pickling; handsome and tender pods.

GREEN-PODDED STRINGLESS

FULL MEASURE (New)—Large cropper; stringless, greenpodded, round Bean, not as early as Burpee's Stringless, but a heavy yielder. Best of quality.

BURPEE'S NEW STRINGLESS GREEN POD

One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings.

GIANT STRINGLESS GREEN POD

Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor.

The plants of this hardy variety, large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps.

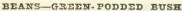
DWARF HORTICULTURAL (Cherry.)
Very green podded sort, used as a shell bean, and for
this purpose is one of the finest in general use; long a
favorite with those who use a shell bean in a green state.

WHITE MARROWFAT.

Extensively grown for sale as a dry bean for winter use.

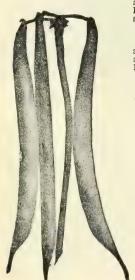
WHITE NAVY, or SMALL PEA BEAN.

A, well-known variety for field culture; very prolific



	100		
(about) (1 pt.)	(1 qt.)	(1 pk.)	(1 bu.)
Beans by Weight 1 lb.	2 lbs.	15 lbs.	60 lbs.
G. & T. CO'S. EXTRA EARLY RED VALENTINE . \$.25	\$.50	\$3.00	\$12.00
BLACK VALENTINE	.50	2.75	10.00
EXTRA EARLY BOUNTIFUL	.60	3.85	15.00
EXTRA EARLY REFUGEE	.50	3.00	12.00
REFUGEE OR THOUSAND TO ONE	.50	3.00	12.00
GREEN-PODDED STRINGLESS REFUGEE ,25	.50	3.00	12.00
FULL MEASURE	.50	3.00	12.00
BURPEES NEW STRINGLESS GREEN-POD25	.50	2.50	10.00
GIANT STRINGLESS GREEN-POD	.50	2.75	11.00
LONG YELLOW SIX WEEKS	.60	3.85	15.00
DWARF HORTICULTURAL	.50	2.75	11.00
WHITE MARROWFAT			
WHITE NAVY			
Add for postage, 8c. per 1b., 10c. for 2 lbs.—As	k for prices	s in qua	antity.





BUSH LIMA BEANS

Plant in drills two to three feet apart, droping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half feet the other and plant four beans in a hill. Hoe often but only when the leaves are dry.



BURPEE'S BUSH LIMA

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition, to the dwarf Lima, possibly the best of the class.

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white.

BURPEP'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yielder, each bush bearing 50 to 200 handsome, large pods, well filled.

handsome, large pods, well filled.

DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

DREER'S WONDER BUSH LIMA.—Very desirable on account of earliness, productiveness; of strong, upright growth, and are completely covered with large pods, many of which contain four beans, which are fully as large as the Pole Limas. The beans are flat in shape and of excellent quality.

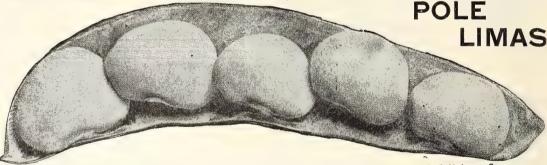
HENDERSON BUSH LIMA.—These are very valuable because

HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost.

BEANS, BUSH LIMA

(about) (1 pt.)	(1 qt.)	(1 pk.)	(1 bu.)
1 1b.	2 lbs.	15 lbs.	60 lbs.
FORD HOOK BUSH LIMA\$.35	\$.60	\$3.75	\$15.00
BURPEE'S IMP. BUSH LIMA30	.60	3.25	·
BURPEE'S BUSH LIMA	.60	3.25	
DREER'S BUSH LIMA	.75	4.50	
DREER'S WONDER BUSH30	.60	3.50	
HENDERSON'S BUSH	.60	3.00	
Ask for prices in quantity. Add for postage,	8c. per	lb., 10c. i	for 2 lbs.

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.



CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor.

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans earlier than any other strain, but it is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod.

EING OF THE GARDEN LIMA —This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a

ETTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality and is the favorite with most people.

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow.

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing.

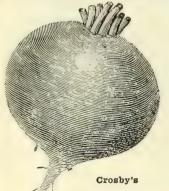
CAROLINA OR SIEVA.—A seedling variety of large White Lima, with small pods, usually about 2 inches long. A little earlier and hardier.

	15 lbs. \$ 3.00 3.25 3.00
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BEETS

One Ounce of Seed Will Sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



EGYPTIAN BEET. CROSBY'S IMPROVED

Improved Egyptian

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not so round as the Eclipse, or quite so flat as the ordinary Egyptian. It may be sown outside as late as July.



Eclipse Beet.

ECLIPSE BEET.

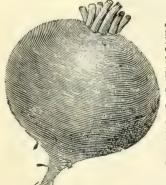
This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.



& T. CO.'S EARLY BLOOD TURNIP BEETS. This is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early.

ϕ EARLY WONDER BEET

Detroit Dark Red Turnip Beet



This is one of the finest formed and handsomestcolored Beets on the market. It is unsur-passed in the uniformity and beauty of the crop. It is exceedingly early, and pro-duces more marketable specimens on the same acro-age than ar z other variety.

This kind of beet is grown exslusively for

0115.

and leaf stalks which are superior to those of other beets for use as greens. Later in the season the wax-like leaf stems are cooked like asparagus or are pickled. This variety we offer has large, broad, undulated leaves, and remarkably broad stalks and mid-

ribs or chards. It is well worthy of a place in the home garden as well as for market use.



CROSBY'S IMPROVED EGYPTIAN EARLY WONDER.... DETROIT DARK RED.... \$.15 \$.25 .75 .25 .10 .15 .25 ECLIPSE .10 ECLIPSE EXTRA EARLY EGYPTIAN FLAT BLOOD TURNIP SWISS CHARD

EARLY WONDER BEET

This grand new Beet, recently introduced, is early, Red with short tops, fine for bunching. Roots are of good, uniform size, slightly oval, and of deep blood red, has slim tap roots, fine grain, tender and sweet. Never gets stringy or woody. Fine for both home use and market garden.

EXTRA EARLY EGYPTIAN.

This is a flat Beet, very early and deep red color. Owing to the small top it can be planted very close.

SWISS CHARD

(Sea Kale or Spinach Beet.)



Golden Tankard Mangold.

MANGEL WURZEL BEETS FOR STOCK

SOW 4 POUNDS TO THE ACRE.

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

LONG RED MANGOLD WURZEL.

The well-known, large, long variety, grows well out of ground. Color light red. Very productive.

GOLDEN TANKARD MANGOLD.

The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer.

WHITE SUGAR BEET.

A large-growing sort, and used for feeding stock.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.

One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre.



1 Ounce of Seed to 100 Yards of Row.

Brussels Sprouts are used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

BORECOLE

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled.

Seed should be sown in May and transplanted in July, in the open field and treated same as Savoy Cabbage.



BRUSSELS SPROUTS



BORECOLE

BROCCOLI

BROCCOLI

1 Ounce of Seed to 100 Yards of Row.

The heads resemble somewhat a coarse cauliflower and the culture is the same as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

EARLY PURPLE CAPE.—Large, compact.

LARGE EARLY WHITE.—Head white, like cauliflower; the

MANGOLD WURZEL	Oz.	½ Lb.	1 Lb.
LONG REDGOLDEN TANKARD		\$.20 .20	\$.40 .40
WHITE SUGAR	10	.20	.40
CHAMPION YELLOW INTERMEDIATE		.20	.40
Pkt.	Oz.	1/4 Lb.	1 Lb.
BRUSSELS SPROUTS\$.10	\$.30 .15	\$.75 .60	\$3.00 2.00
BORECOLE10 BROCCOLI .10	.50	.00	2.00

GRIFFITH @ TURNER CO.

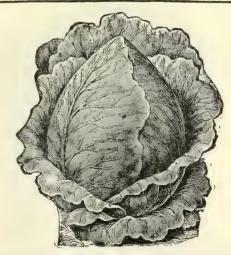




SELECT EARLY JERSEY WAKEFIELD

American Grown.

The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each



CHARLESTON, OR LARGE WAKEFIELD

American Grown,

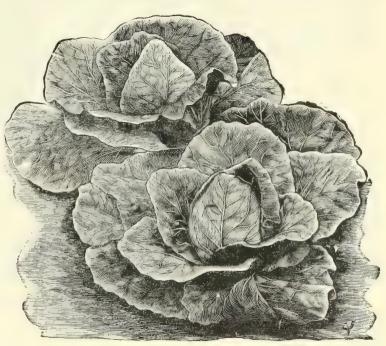
This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows.

CABBAGE

One Ounce of Seed to 100 Feet of Row.

EARLY CARRAGES

Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. New land is preferable. Flow deep and manure very liberally, as cabbage is a strong teeuer, and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to two feet apart in the rows, with the rows from two to two and a half feet apart. The larger varieties to be from two to four feet apart in the rows, with the rows from two and a half to four feet apart. The distance varying with the size. It does not pay to buy cheap cabbage seed. Ours are American grown, and from the best stock in the country. For early use, sow in a hotbed in February or March, and transplant to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For ate crop, sow in nursery bed in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows. Cabbage will thrive on any good corn land, though the stronger the soil the



LARGE OR CHARLESTON WAKEFIELD

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less ointed than Jersey Wakefield and slightly earlier. Heads softer, but stands shipping better

EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort.

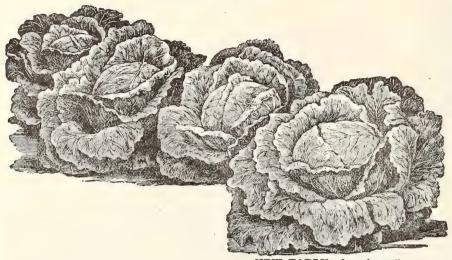
PEDIGREE SELECTED EXTRA EARLY JERSEY a medium size, pointed head.

We obtained this Pedigreed stock after careful introduced from Denmark. It is without doubt the finest large round-headed and now we offer it to our patrons for the first time, time uniformly, which enables the crop to be harvested at one time, so that field type Cabbage that equals it in quality. It matures about ten days earlier than the select Early Jersey Wakefield.

CABBAGE	Pkt.	Oz.	1/4 Lb.	1 Lb.
EARLY JERSEY WAKEFIELD	\$.10	\$.25	\$.75	\$2.25
PEDIGREE SELECT LARGE JERSEY				
WAKEFIELD	.10	.30	1.00	3.00
CHARLESTON WAKEFIELD	.10	.25	.75	2.25
EXTRA EARLY EXPRESS	.10	.30	1.00	3.00
EARLY WINNINGSTADT	.10	.25	.75	2.25
LARGE EARLY YORK	.10	.25	.75	2.25
COPENHAGEN MARKET	.10	.25	.75	2.50



CABBAGE—CONTINUED



NEW EARLY--American Grown

ALL HEAD EARLY

Grown, is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter Cabbage.

EARLY DWARF FLAT DUTCH

American Grown

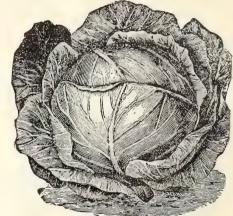
An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield.

This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it.

SUCCESSION CABBAGE.—A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size; but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted.

EARLY SUMMER CABBAGE.—American grown. One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with truckers.

LOUISVILLE DRUMHEAD.—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States.



SUCCESSION CABBAGE

ALL-HEAD EARLY CABBAGE

ALL SEASON—American Grown

This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season.

SUREHEAD—American Grown

This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

CABRAGE	Pkt.	Oz.	1/4 Lb.	1 Lb.
ALL-HEAD EARLYEARLY DWARF FLAT DUTCH	10	\$.25 .25	\$.75 .75	\$2.25 2.25
NEW EARLY SUCCESSION	10	.25 .25	.75 .75	2.25 2.25
EARLY SUMMER LOUISVILLE DRUMHEAD	10	.25 .25	.75 .75	2.25 2.25
ALL SEASONS SUREMEAD		.25 .25	.75 .75	2.25 2.25



30 50

LATE OR AUTUMN CABBAGE



BOSS FLAT DUTCH-LATE CABBAGE

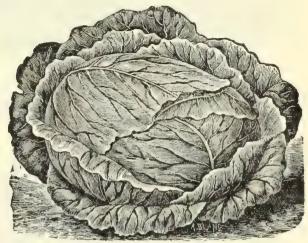
Premium Large Late Flat Dutch Cabbage

American Grown

Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf

Boss Flat Dutch Cabbage

In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we should say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "Splendid!" or "Elegant!" "Everything heads!" You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.



PREMIUM LARGE FLAT DUTCH-LATE CABBAGE

DANISH BALL HEAD CALBAGE

Danish Ball Head

This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can lso be grown for a fall and winter cropbeing one of the best keepers. Very popular in Philadelphia, New York and Boston markets.

Large Late American Drumhead Cabbage

American Grown

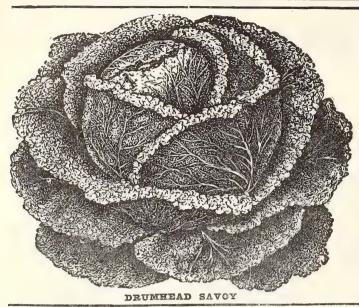
One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

Red Dutch Cabbage

The head is round, large, solid and a deep red color, the best of the red cabbages

CABBAGE	Pkt.	Oz.	½ L b.	1 Lb.
BOSS PLAT DUTCH	\$.10	\$.25	\$.7 5	\$2.25
PREMIUM FLAT DUTCH	.10	.25	.75	2.25
DANISH BALLHEAD	.10	.25	.75	2.25
LATE AMERICAN DRUMHEAD	.10	.25	.75	2.25
RED DUTCH	.10	.25	1.00	3.00





LATE CABBAGES-CONTINUED PERFECTION DRUMHEAD SAVOY

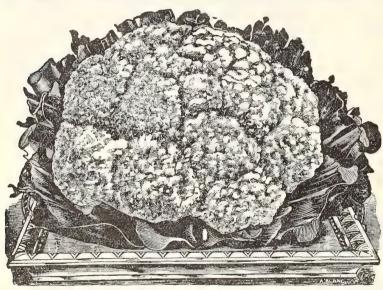
AMERICAN GROWN

This is without any exception the finest stock of Savoy Cabbage to be found anywhere The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class.

GEORGIA COLLARDS

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves gen-erally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

G. & T. CO.'S LARGE GILT EDGE SNOWBALL CAULIFLO



Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect, snow-white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under

G. & T. CO.'S "DROUTH-RESISTING."—Produces large, white, solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

G. & T. CO.'S SELECT EARLY DWARF ER-FURT.—Long the standard of highest excellence, and still holding its own with a great many peo-

CULTURE.—The same as for Cabbage, except that extra manure and plenty of water will pay upon cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay or straw it would keep the soil moist, and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than the middle of April: the late kinds may be planted out same time as for Cabbage.



CORN SALAD

Three Ounces of Seed to 100 Feet of

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. spinach.

CRESS, OR PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

WATER CRESS.—Water cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Oz.

\$1.50

.15

.40

1/4 Lb. 1 Lb. \$5.00

.75

1.00

3.00

.20

.40

1.00

PERFECTION DRUMHEAD SAVOY: COLLARDS. GEORGIA CAULIFLOWER G. & T. CO'S LARGE GILT EDGE SNOWBALL	.10	\$.25 .15	.25	\$2.25 .75	G. & T. CO.'S DROUTH RESISTING. \$ G. & T. CO.'S SELECT EARLY DWARF ERFURT. CORN SALAD CURLED CRESS WATER CRESS	.25 .25
EXTRA EARLY SNOWBALL	,25	1.50	5.00			-





G. & T.CO.'S CARROTS 10Z. OF SEED TO 100 FEET OF ROW

Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



OXHEART OR GHERANDE

Oxheart or Guerande

One of the heaviest yielders and the best for stiff and heavy soils where the long varieties would fail. The roots are often 3 to 31/2 inches thick at the top; nearly oval in shape; the flesh is bright orange, fine grained and sweet. Of the finest table quality and equally good for stock.

Pkt., 10c. Oz., 15c. 1/4 Lb., 35c. Lb., \$1.00

CHANTENAY



CHANTENAY.

A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching used for bunching.

Pkt., 10c. Oz., 15c. 1/4 Lb., 35c. Lb., \$1.00

The earliest variety in our list. Blunt-pointed, about 3 inches long, 1½ inch thick, very fine grained, sweet flavored; deep rich orange color. Fine for bunching.

Pkt., 10c, Oz., 15c, 1/4 Lb., 35c. Lb., \$1.00



EARLY SCARLET HORN.

decided acquisition of the half-long type, b ldered, cylindrical, admirable in color, fixe s, a wonderful producer. It is a first-class shouldered,

Pkt., 10c. Oz., 15c. 1/4 Lb., 35c. Lb., \$1.00

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise 'a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color.

Pkt., 10c. Oz., 15c. 1/4 Lb., 30c. Lb., 75c.

A fine handsome Carrot, in form midway between the Long Orange and Early Scarlet Horn. The roots are smooth and handsome, deep orange color, medium length tapering to a blunt point. The flesh is sweet, crisp and tender.

Pht., 10c. Oz., 15c. 1/4 Lb., 30c. Lb., 90c.



IMPROVED LONG ORANGE.

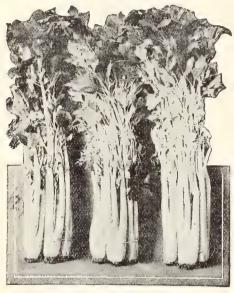


DANVERS.

1 Oz. Will Produce 2000 Plants. CELERY

CELERY

Requires water, and lots of it, from the time the seed is sown in boxes in March until it is pulled in the autumn or winter. The seed is slow to germinate, and the soil where it is planted needs to be kept very wet. Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart. either on surface or well-manured trenches a foot in depth, half filled with well-rootted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.



GOLDEN PLUME CELERY

FRENCH GOLDEN SELF-BLANCHING

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery.



GOLDEN SELF-BLANCHING CELERY.

IMPROVED BOSTON MARKET

This is a decided improvement on the old Boston Market, being earlier, larger in size and of more vigorous growth.

WHITE PLUME

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed

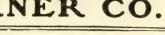
GOLDEN PLUME (New)

Recently introduced. Much better than White Plume. Equal to Golden Self-Blanching. Proven to be the leading Celery.

CELERY SEED FOR FLAVORING

This seed is used for flavoring pickels, soups, etc.

CELERY	Pkt.	Oz.	½ Lb.	1 L b.
GOLDEN FLUME	\$.10	\$.75	\$2.50	\$10.00
FRENCH SELF-BLANCHING, AMERICAN STO	OCK .10	.50	1.50	4.00
IMPROVED BOSTON MARKET	10	.20	.60	2.00
WRITE PLUME	10	.20	.60	2.00
FLAVORING		.10	.15	.40



CELERY---Continued



GIANT PASCAL CELERY

GIANT PASCAL CEL-ERY.—A selection from the well-known Self-blanching Celery, It par-takes of the best qual-ities of that variety, is somewhat larger, and an excellent keeper. It is of fine nutty flavor, be-ing entirely any bruer taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; grows about 2 feet figh.
The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

GOLDEN HEART, OR
GOLDEN DWARF CELERY.—This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper.

WINTER QUEEN CELERY .- It is without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid. crisp and of delicious nutty flavor.



GOLDEN HEART, OR GOLDEN DWARF CELLRY

CELERIAC

OR TURNIP ROOTED CELERY

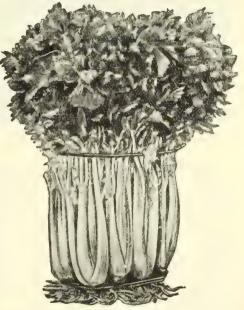
LARGE SMOOTH PRAGUE .- The largest, smoothest and best of the Celeriacs.

NEW APPLE SHAPE .- Small foliage, large, round and smooth.



Celery	Pkt.			1 Lb.
GIANT PASCAL	\$.10	\$.25	\$.60	\$2.00
GOLDEN HEART.		.25	.60	2.00
WINTER QUEEN.		.25	.60	2.00
CELERIAC			½ Lb.	1 Lb.
LARGE SMOOTH.	\$.10	\$.25	\$.75	\$2.50
NEW APPLE SHA	PE10	.25	.75	2.50

Large Smooth Prague



WINTER QUEEN CELERY

WHEN CORN IS WANTED BY MAIL. ADD 6 CENTS PER POUND TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of grop. By planting every two weeks a family may have good corn throughout the whole season.



Not a Sugar Corn, but are used for very early planting and will mature nice roasting ears before the sweet corn.

EARLY VARIE



Extra Early Baltimore

FIRST EARLY NECK CORN .- By far the earliest roasting-ear corn we have. Can be planted in April without injury, as it is very hardy.

EXTRA EARLY BALTIMORE.—The hardiest and earliest is not a sweet corn; white indented grains and short ears. -The hardiest and earliest variety for table use; it can be planted earlier than any other, but

EXTRA EARLY ADAMS.—Extremely hardy and early; one of the best for early planting.

EARLY ADAMS .- A favorite in the South.

NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop, and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop.

DE LUE'S GOLDEN GIANT SUGAR CORN.—The stalks grow $4\frac{1}{2}$ to 6 feet tall and very near the ground; about one-ird are purple in stalk, leaf and husk. They carry two or three good ears, 7-9 inches long; cob of small diameter, with 12-20 lows of long, deep kernels of deep orange color. The husk is very heavy, affording the end protection from worm and bird third are purple in stalk, leaf and husk. They can rows of long, deep kernels of deep orange color.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the

GOLDEN GIANT GOLDEN BANTAM

Comparative Size of Golden Bantam and New Golden Giant Sugar Corn.

CAUTION.—Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as eceived and spread in a dry place.

PREMO .- The best early sweet corn on the market. genuine sweet corn as early as the Adams Extra Early and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end; generally bearing two ears to the stalk

CORY .-- An early variety, red cob.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier.

WHITE CORY .-- An early variety, with good-sized ears and large kernels.

STABLER'S EARLY .- Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweet-ness, and is a desirable gardeners' and canning variety.

CROSBY'S EXTRA EARLY .-- An early market variety very productive; ears rather short and rich, sugary flavor

EARLY MINNESOTA SUGAR .- One of the first early among sugar corn.

BLACK MEXICAN SUGAR .- The black corn is especially rich in sugary qualities.

HOWLING MOB—Howling Mob is one of the best flavored and most tender of all second-early white sweet corns. Ears of Howling Mob measure from 7 to 9 inches in length and they are closely set with 12 or 14 rows of large, pearly-white grains.

Howling Mob is a strong-growing and sturdy variety, sually carrying two ears to a stalk. It is very productive and, without question, the earliest white sweet corn of really high quality. It is easily grown and yields a fine crop of handsome ears.

crop of handsome ears.

about (1 pt.)	(1 qt.)	(1 pk.)	about	(1 pt.)	(1 qt.)	. (1 pk.) 11 lbs.
GARDEN CORN % 1b.	1 % lbs.	14 lbs.	SWEET CORN	3/4 lb.	13% lbs.	11 lbs.
FIRST EARLY NECK\$.15	\$.30	\$1.50	PREMO	\$,20	\$.35	\$1.75
EXTRA EARLY BALTIMORE	.30	1.50	HOWLING MOB	.20	.35	2.00
EXTRA EARLY ADAMS	.30	1.50	CORY		.35	1.75
EARLY ADAMS	.30	1.25	FIRST OF ALL	.20	.35	1.75
NINETY DAY RED COB	.25	1.25	WHITE CORY	.20	.35	1.75
about (1 pt.)	(1 qt.) 1 3/8 lbs.	. (1 pk.)	STABLER'S EARLY	.20	.35	1.75
SWEET CORN 3/4 1b.	13% lbs.	11 lbs.	CROSBY'S EXTRA EARLY	.20	.35	1.75
DE LUES GOLDEN GIANT CORN \$.20	\$.35	\$1.75	EARLY MINNESOTA	.20	.35	1.75
NEW GOLDEN BANTAM CORN20	.35	1.75	BLACK MEXICAN	.20	.35	1.75
Ask for prices in	a quantity	. Add for	r postage, 8c. per lb., 10c for 2 lbs.			



SWEET OR SUGAR CORN FOR TABLE

CAUTION.—Sweet corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and by ead in a

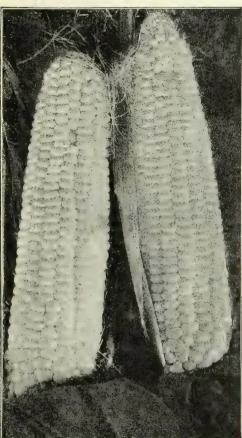
dry place.

EARLY SHEFFIELD.—Plant as early as Adams. Makes strong, vigorous growth with abundant foliage, growing about feet and bearing usually 2 ears of handsome appearance.

METROPOLITAN.—Extra early, ripens a few days later than Cory, but produces larger ears.

BUSHEL SWEET CORN 44 POUNDS

MAIN CROP VARIETIES



TRUCKER'S EARLY CORN

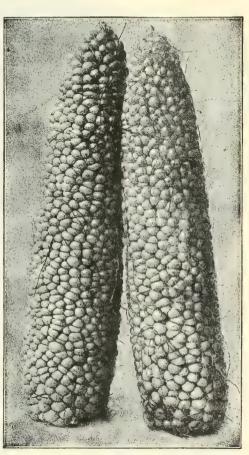
COUNTRY GENTLEMAN CORN—This is the sweetest and most delicious flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts.

STOWELL'S EVERGREEN. —So well known that it scarcely needs description. Excelent; keeps green till cold weather; ears large; one of the best.

TRUCKER'S EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. TRUCKER'S EARLY SUGAR

LATE MAMMOTH—The largest variety grown; very fine for market purposes.

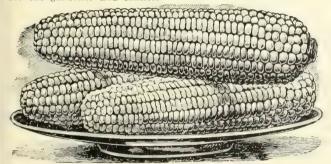
ZIGZAG EVERGREEN.—This ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country C riteman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn.



COUNTRY GENTLEMAN CORN

EARLY MAMMOTH .- A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end.

WHITE EVERGREEN .- Has ears as large as Stowell's, is five days earlier; grains pure white. A valuable acquisition for the gardener and canner.



STOWELL'S EVERGREEN.
BUSHEL SWEET CORN CONSISTS OF 44 POUNDS.
ASK FOR PRICES IN QUANTITY.

	about (1 pt.)	(1 qt.)	. (1 pk.)
SWEET CORN		34 1b.	13's 1bs.	11 lbs.
COUNTRY GENTLEMAN	\$.20	\$.35	\$1.75
STOWELL'S EVERGREEN		.00	.05	1.75
TRUCKER'S EARLY		.20	.35	1.75
LATE MAMMOTH		.20	.05	1.75
EARLY MAMMOTH		.20	.35	1.75
WHITE EVERGREEN		.20	.05	1.75
EARLY SHEFFIELD		.20	.35	1.75
METROPOLITAN		.20	.35	1.75

Ask for prices in quantity. Add for postage, 8c. per pound 10c. for 2 lbs.



1 Oz. Will Plant 50 Hills. 2 Lbs. Will Plant an Acre.

CUCUMBER

CULTURE

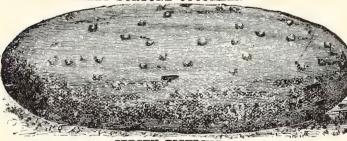
For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort, with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot plaster, or air-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



IMPROVED BALTIMORE WHITE SPINE



EARLY FORTUNE CUCUMBER



JERSEY PICKLING

IMPROVED BALTIMORE WHITE SPINE

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virgina to Florida.

ARLINGTON WHITE SPINE .- A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well.

EARLY FORTUNE CUCUMBER .- One of the earliest and best dark green White Spine Cucumbers. Extremely early, and beautiful shape. Good for market gardeners, truckers or private family; in fact, any one who likes a dark green, white spine cucumber it cannot help but please. Fine for Southern growers, as it stands shipping remarkably well.

JERSEY PICKLING .- This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.



IMPROVED LONG GREEN

IMPROVED LONG GREEN

The skin is of a deep green, and the flesh is solid, crisp and of fine quality. We have the very best strains of this variety and recommend it as much the best cucumber of all, and the variety every one should plant. The best known and most popular variety for general use. Is vigorous and productive, and forms fruit fit for use as early as the shorter varieties. The mature fruit is almost 12 inches long. almost 12 inches long.

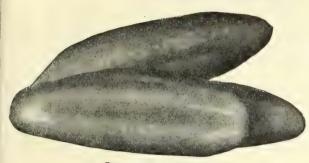
BURR, OR WEST INDIA GHERKIN.

An extremely small fruited variety, grown exclusively for pickels. It has no value for slicing. Is very prickly, but tender and crisp if pickled when young. Seed germinates slowly.

CUCUMBER	Pkt.	Oz.	½ Lb.	1 Lb.
IMPROVED BALTIMORE WHITE SPINE	.10	\$.15	\$.30	\$1.00
ARLINGTON WHITE SPINE	.10	.15	.30	1.00
EARLY FORTUNE	.10	.15	.30	1.00
JERSEY PICKLING	.10	√15	.30	.90
IMPROVED LONG GREEN	.10	.15	.40	1.25
BURR OR WEST INDIA GHERKIN	.10	.15	.40	1.50



CUCUMBERS-CONTINUED



EARLY GREEN PROLIFIC

A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and fine quality when sliced for the table.



EVER-BEARING CUCUMBER

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

EVER-BEARING CUCUMBER



EARLY GLUSTER

A short prickly variety, bearing in clusters near the root. A good bearer.

JAPANESE CLIMBING CUCUMBER

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe.

TELEGRAPH (ENGLISH FORCING)

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night.

ENDIVE

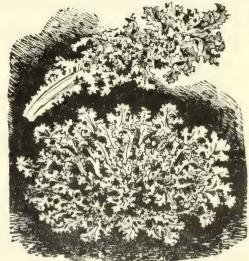
Is One of the Best Salads for Fall and Winter Use. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

GREEN CURLED ENDIVE

The best sort in use. Useful as a salad, and also used for garnishing.

CUCUMBERS	Pkt.	Og.	½ Lb.	1 Lb.
EARLY GREEN PROLIFIC	\$.10	\$.15	\$.30	\$.90
EVERBEARING	.10	.15	.30	.90
EARLY CLUSTER	.10	.15	.30	.90
JAPANESE CLIMBING	.10	.15	.30	.90
TELEGRAPH	.25			
ENDIVE GREEN CURLED	Pkt.	Oz.	½ Lb.	1 Lb. 1.25



GREEN CURLED ENDIVE



EGG PLANT

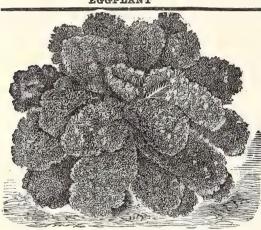
CULTURE.—Sow the seed in hot-beds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants will become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in a thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the early stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary. Care should be observed in cutting the fruit so as not to disturb the roots of the plants. One ounce will produce about 1,000 plants.

BLACK BEAUTY EGG PLANT.—The earliest of all large fruited Egg Plants and produces fruit quite as large as the NEW YORK PURPLE in 10 days less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT.—This market garden variety has plants of strong growth, and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost.

THE FLORIDA HIGH-BUSH EGG PLANT.—Is in great demand by Southern truckers. It has very vigorous growth and remarkably hardy. The plant grows very erect and holds the fruits clear of the ground.

BALTIMORE EGG PLANT.—This is decidedly the best and most profitable Egg Plant in cultivation. It is large thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field.



EXTRA CURLED NEW AMERICAN KALE

KALE

One Ounce of Seed Will Sow a Drill of About 200 Feet.

The Kales are more hardy than cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

GRIFFITH & TURNER CO'S. NEW KALE.—Larger, More Curled and longer-standing than any other Kale. Packet, 10c.; ½ 1b., 20c.; 1b., 75c.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring, like spinach. It may also be sown early in the spring for later use.

EXTRA CURLED NEW AMERICAN KALE.—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

Norfolk.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.



KOHLRAB

1 OZ. OF SEED TO 100 FEET OF ROW

Improved White Vienna

BULB LIGHT GREEN
FLESH WHITE
VERY RAPID IN GROWTH
EARLY MATURITY.
FINE IN TEXTURE, and
SYMMETRICAL IN FORM
SUPPERIOR.

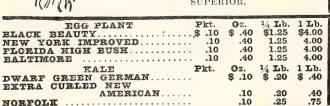
LEEK

1 OZ. OF SEED TO 150 FEET OF ROW

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture.

LARGE ROUEN .-



	KOHL RABI	Pkt.	Oz.	1/4 Lb.	1 Lb.
WHITE	VIENNA IMPROVED	-10	.20	.50	1.75
1					
1	LEEK	Pkt.	Oz.	½ L b.	1 Lb.
EXTRA	LARGE MAMMOTH	.10	.20	.50	1.75
	ROUEN		.20	.50	
	2000221		100	.00	1,,,,
	ABOVE PRICES ARE	POSTI	PAID		

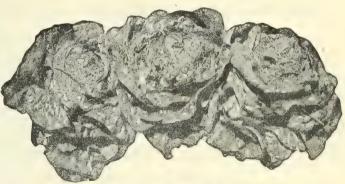


LETTUCE

Lettuce requires rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. CO.'S WHITE SEED SUMMER LETTUCE

The Best Summer Lettuce Ever Introduced .- This va-The Best Summer Lettuce Ever Introduced.—This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender, and of most excellent flavor.



W. S. SUMMER LETTUCE

G. & T. CO.'S SUMMER LETTUCE (Black Seed.)

This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid, large, solid, head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

IMPROVED NEW YORK, OR "WONDERFUL"

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched and stands for a considerable time before running to seed. Outer leaves a deep, rich green.

A very early, new variety, forming fine, hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head. We have had no end of praise from our friends and customers who have tried this variety. It is essentially a spring sort, and does well all summer. Being of rapid growth and quick heading, it is especially recommended for home garden, and is universally esteemed.

"ICEBERG" LETTUCE

The heads are large, crisp, solid and tender.

EARLY PRIZE HEAD (Seed White)

A large, clustering, non-heading lettuce, most excellent for the home and garden, and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

EARLY CURLED SIMPSON

Black seed. Very early; excellent for salads; forms a compact mass of leaves.

TENNIS BALL

Black seed. A favorite forcing variety; a very hard head.

ROMAINE OR WHITE PARIS COS

The best of the Cos or celery varieties. Forms a large, light green plant with the head well folded and quite solid. Cos lettuce is also called Romaine, and is very popular with our foreign population, for it is highly prized in England and France, while little known to our own people.



COS LETTUCE

LETTUCE Pkd G. & T. CO.'S WHITE SEED SUMMER	0 .25		2.50	EARLY PRIZE HEAD EARLY CURLED SIMPSON TENNIS BALL	10 .20 10 .20 10 .20	1/4 Lb. .50 .50 .50 .50	1 Lb. \$1.25 1.25 1.25 1.25 1.25
OR WONDERFUL	0 .25	.60	2.25	ROMAINE OR WHITE PARIS COS .		.50	1.50

LETTUCE---Continued BALTIMORE CABBAGE LETTUCE

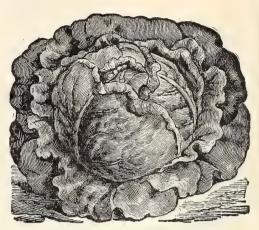
G & T CO.'S TRUE STOCK
Large Heads, Beautiful Heads, Solid Heads; Stands Heat Well. Best
of all for

FALL PLANTING

This new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these in turn were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says, "I had 3,000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine."

LARGE LOAF LETTUCE

This is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.



BALTIMORE CABBAGE LETTUCE.

BALTIMORE OAK LEAF

This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

HANSON.

A variation of the Indiana, forming a half-closed head.

BOSTON MARKET

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

GRAND RAPIDS

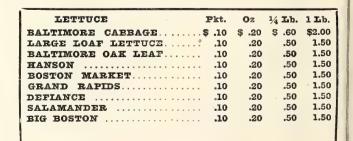
This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimpled and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; not very liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

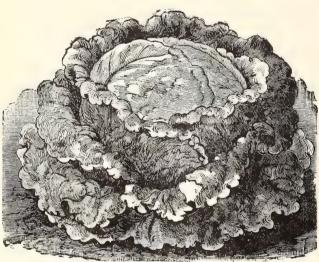
DEFIANCE.

Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm that they have to be cut open to allow the flower heads to come through.

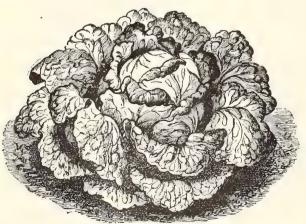
BIG BOSTON

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.





LARGE LOAF LETTUCE.



BIG BOSTON.

GRIFFITH @ TURNER CO



NEW MARYLAND CANTA-LOUPE.-The latest acquisition to our collection of muskmelons. It is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. A sure moneymaker. Our truckers around Baltimore will have no other after planting our New Maryland. Pkt., 10c. Oz., 15c. 1/4 lb., 35c. Lb., \$1.25

ROCKY FORD ME

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-

with coarse netting. First thick, green, very sweet and high-flavored.

We have an exceptionally fine stock of this variety grown from choice selected specimens. Pkt., 10c. Oz., 15c. 1/4 lb., 30c., Lb., 90c.

Baltimore Nutmeg Cantaloupe

The Old Standard Variety That Has Found Favor Wherever Grown.

The stock seed of this splendid melon was secured from a The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places—in fact, it is a leading sort all over the country. Pkt., 10c. 02., 15a. 14 Lb., 30c. Lb., 90c.

IMPROVED JENNY LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise. Pkt., 10c. Oz., 15c. 1/4 lb., 30c. Lb., 90c.



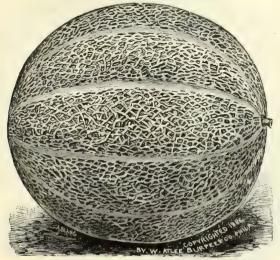
EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates.

Pkts., 10c. 0z., 15c. 1/4 lb., 30c. Lb., 90c.



ROCKY FORD CANTALOUPE.



BALTIMORE NUTMEG.

EMERALD GEM.

Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. Fkt., 10c. 0z., 18a. ½ lb., 30c. Lb., 90c.

OSAGE, OR MILLER'S CREAM.

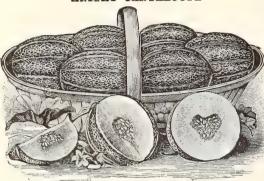
Most delicious. The flesh is a rich salmon color, very thick, weet and rich; rind very thin and finely netted.

Pkt., 10c. 0z., 180. ½ lb., 30c. Lb., 90c.

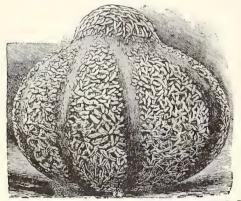


MUSKMELONS -- CONTINUED

KNIGHT CANTALOUPE



PAUL ROSE



NORFOLK

An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and deicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once. Pkt., 10c. Oze 15c. 1/4 Lb., 30c. Lb., 90c.

EXTRA EARLY HACKENSACK

Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack. Pits., 10c. Oz., 15c. 14 Ib., 30c. Lb., 90c.

LONG ISLAND BEAUTY.—Pits., 10c. Oz., 15c. 14 Ib., 30c.

KNIGHT CANTALOUPE

A New Early Cantaloupe of Superb Quality and at the same Time Makes an Excellent Market or Shipping Melon.

This new Cantaloupe has been grown in Anne Arundel county for the past several years, and has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and salable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. PRL, 10c. Oz., 15c. 1/4 Lb., 35c. Lb., \$1.25

PAUL ROSE.—In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden Pkt., 10c. Oz., 15c. 1/4 Lb., 30c. Lb., 90c.

ANNE ARUNDEL CANTALOUPE

(Original Stock.)

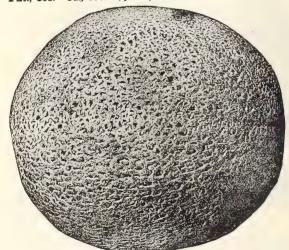
This handsome melon introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel county, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. Pkt., 10c. Oz., 15c. 1/4 Lb., 30c. Lb., 90c.

HONEY DEW MELON.—This new melon averages about 6½ inches in diameter. Smooth skin, rind thin and tough, good keeper and fine flavor. Pkt., 10c. Oz., 20c. ¼ Lb., 60c. Lb., \$2.00.

EDEN GEM OR NETTED ROCK

One of the handsomest melons in our list. Splendid shape and thorough netting and absence of deep spaces between the ribs, indicating strong shipping properties. The flesh is unusually thick, the seed cavity very small, the flavor exquisite. A heavy yielder, the melons very uniform, but few run too large, and still fewer too small. For shipping we recommend it highly; also for home growers.

Pkt., 10c. Oz., 15c. 1/4 Lib., 30c. Lib., 90c.

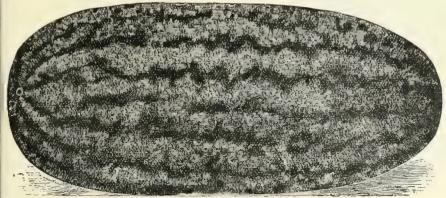


Netted Rock or Eden Gem Cantaloupe





WATERMELONS



LORD BALTIMORE

CULTURE.—One ounce of seed to 30 hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.

Lord Baltimore

It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet and extending close up to the rind.
It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grow. It is a good shipper and beats all others as a seller.

Florida Favorite

This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. The best of all for family gardens. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

MCIVER'S SUGAR WATERMELON

In outward appearance it somewhat resembles the old Rattle-snake. The quality is much superior. It is an extremely productive and hardy variety.

Indian Chief Watermelon

A large oblong dark green melon, with thick netting, the rind is thin but very tough. The flesh is a bright attractive red, and has a crisp delicious flavor. It is very productive, and is an excellent shipper.

Dark Icing

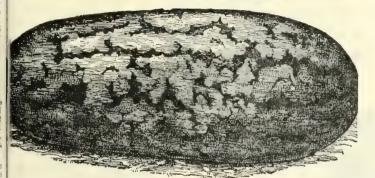
An extra early and extra good melon for home use and nearby market. One of the most delicious of melons; rich red and sugary to the year thin rind

GRAY MONARCH OR LONG WHITE ICING

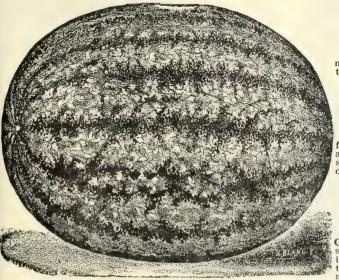
This distinct melon is without a doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet deltcious flavor. It is also a fine shipper, carrying well long distances and bringing very high prices.

Duke Jones Watermelon

In shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct irregular stripes of light and dark green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing.



PLORIDA PAVORITE



DUKE JONES

MC	WATERMELON RD BALTIMORE ORIDA FAVORITE IVERS SUGAR RK ICING	10	.15	1/4 Lb. \$.25 .25 .25 .25	1 Lb. \$.75 .60 .60	GRAY MONARCH OR LONG WHITE ICING. DUKE JONES. INDIAN CHIEF.	.10.	.15	.25 .25 .25	.60 .60	li



WATERMELONS--Continued

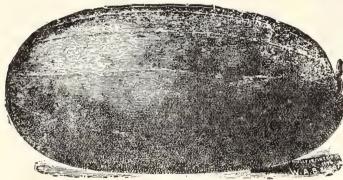


use and you will be delighted.

Thurmond Gray Watermelon

THURMOND GRAY WATERMELON—Thurmond Gray is similar
to Irish Gray, except with larger
melons, and brown seed instead of
white. The ring is very tough and
stands shipping as well as any melon
grown. The flesh is free from strings,
is fine grained arise, and tonder. is fine grained, crisp and tender. Its eating qualities are excellent. Markets prefer the Thurmond to Irish Gray and will pay a premium for them, although there seems to be no difference in eating or shipping qual-

EXCEL—Many growers claim that for shipping it is even better than Tom Watson. In appearance it strongly resembles the Watson, has a very thin, tough rind, is uniformly large, averaging from 40 to 60 pounds. On the table it is as attractive as any melon can be, and its quality is fully equal to its attractiveness. It is an unusual melon in that, although a grand shipper, it is also one that we can highly recommend for private garden, the beautiful red meat being decidedly crisp, sweet and luscious, and solid to the center. Seeds are both black and white.



TOM WATSON

A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent shipping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh deep red, crisp, melting and of finest flavor. Heart large, with little or no core. One of the best eating melons known.

RATTLESNAKE WATERMELON

Large, oblong, striped and mottled; flesh bright red; a good shipper, a favorite variety in the South.

DIXIE

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

SWEETHEART

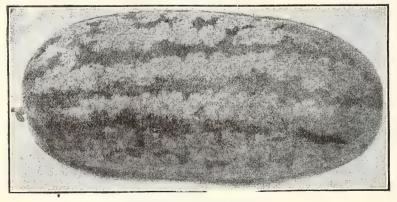
An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit, large oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

KLECKLEY'S SWEETS

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality for the home market or family garden. It is decidedly one of the best.

KOLB'S GEM—This is one of the largest, most productive, best keeping and best shipping watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

CITRON-For Preserves. Fruit round and handsome. Used in making preserves only.



GEORGIA RATTLESNAKE

1	WATERWELON	Pit.	Oz.	1/4 Lb.	1 L b.	WATERMELON	Pkt.	Oz.	1/4 Lb.	1 Lb.
ł	TOM WATSON	\$.10				KLECKLEY'S SWEET			\$.25	\$.75
1	THURMOND GRAY	.10	.15	.25	.90	EXCEL	10	.15	.25	.75
ı.	RATTLESNAKE	.10	.15	.25	.60	KOLB GEM	10	.15	.25	.60
1	DIXIE	-10	.15	.25	.60	IRISH GREY	10	.15	.25	.75
1	SWEETHEART		.15	.25	.60	Citron		.15	.25	.90

ENGLISH MILL TRACK MUSHROOM SPAWN

Cake, 30c., by mail 35c.; 10 lbs., \$2.50 by Preight or Express.

CULTIVATION

The cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long, strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 3 feet wide at the base, 2½ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days, warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees, no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When with the hand and inserting pieces of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use.

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successively grown on a shelf in an

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successively grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in the same manner as described.

MUSHROOMS ON PASTURE LAND OR LAWN

About the first of June take pieces of spawn an inch square and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected 3 or 4 months from the time of planting.

OKRA, or GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

TWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 10c. Oz., 15c. 1/4 Lb., 20c. Lb., 75c.

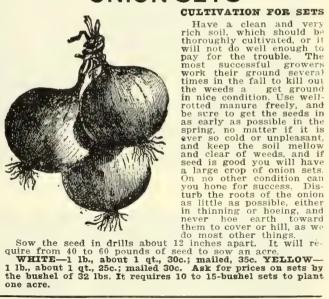
WHITE VELVET

pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great

Pkt., 10c. Oz., 15c. 14 Lb., 25c. Lb., 75.

ONION SETS

CULTIVATION FOR SETS



VEGETABLE ROOTS

ASPARAGUS ROOTS

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 8,000 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit of 1,000 square feet of bed. Incorporate thoroughly, make a trench sinches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

Palmetto-Per 100, \$1.25. Per 1,000, \$9.50.

See also page 3 and 56.

Washington-Per 100, \$1.75. Per 1,000, \$12.00 Postage extra.

HORSE RADISH ROOTS

The land should be rich, well manured, plowed deeply, harrowed and free from lumps. Plant in a roomy space by itself. Make rows 15 inches apart, set plants 12 inches from each other. Plant shoots about 5 inches long, making holes for same with a stick, and set them about 2 inches under the soil. Have the shoots cut squarely across the bottom, but cut slanting at the top, in order that one side may be a little longer than the other. Keep free from weeds for the first and second seasons, after which the Horse Radish will take care of itself. Dozen, 20c. By mail, 25c. Per 100, \$1.00. By mail, \$1.25. Per 1,000, \$8.00. By express, not prepaid.

RHUBARB OR PIE-PLANT

This very desirable vegetable comes early in the spring. The large stems of the leaves are used for pie-making and stewing. A deep, rich soil is indispensable to secure large, heavy stalks. Plant in rows 4 feet apart, with the plants 3 feet distant. Set so that the crowns are about an inch below the surface. Top-dress annually in the fall with stable manure, and fork under in the spring. 20c. Each. By mail, 25c. Dozen, \$2.00. By express, not prepaid.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

GRIFFITH @ TURNER CO

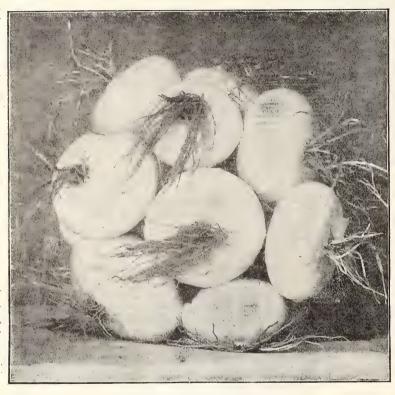


ONION SEED

CULTIVATION

TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the better the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.



WHITE SILVERSKIN ONION



YELLOW DANVERS ONION

WHITE SILVERSKIN or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets.

AUSTRALIAN BROWN.—A Valuable Long-Keeping Onion.—This new onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant

WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and

YELLOW DUTCH, or STRASBURG.—The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, color and size, but as a set onion it has the quality of ripening down earlier and more uniformly.

YELLOW GLOBE DANVERS.—A very hand-some, round, yellow onion: a large yielder and splendid keeper; the preferred sort with mar-ket gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions.

PRIZE TAKER.—This is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prize-taker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success. fine success.

ONION Pkt. Oz. 1/4 Lb. 1 Lb. WHITE SILVER-SKIN or PORTUGAL \$0.10 \$0.25 \$0.75 \$2.50 AUSTRALIAN BROWN. . . 10 .25 .65 2.25 WETHERSFIELD .25 .60 2.00 YELLOW DUTCH or STRASBURG10 .20 -60 2.00 YELLOW GLOBE .20 .60 2.00 .25 .65 2.25 WAL

HOI



PARSNIP NASTURTIUM

The Parsnip will nourish best and give the longest largest and smoothest roots in a very deep, rich soilone that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

Hollow Crown or Sugar

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.



Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

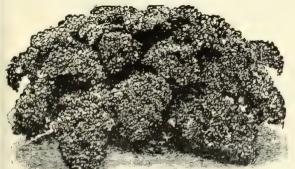
MUSTARD

GIANT CURLED.—Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of great breadth, forming enormous bunches.

WHITE MUSTARD .-

PARSLEY

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



BALTIMORE EMERALD GREEN TRIPLE CURLED PARSLEY.

-The newest and best variety yet introduced. Beautiful green color and finely curled and crimped.

DWARF EXTRA CURLED .- The most beautiful and valuable variety in use; handsome bright green color; finely crimp d, beautifully curled

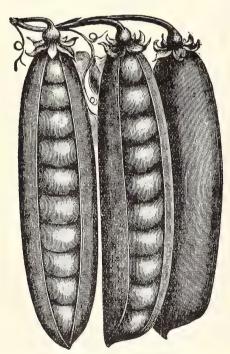
MOSS CURLED .- A very select crimped variety.

HAMBURG ROOTED OR GERMAN .- The root resembles a small paranip and is the edible part of the sort; used for flavoring soups.

PARSNIPS Pkt.	Oz. 1	4 Lb.	1 Lb.	PARSLEY Pkt	Oz.	1/4 Lb.	1 Lb.
HOLLOW CROWN OR SUGAR	\$.10	\$.25	\$.75	BALTIMORE EMERALD GREEN			
MUSTARD				TRIPLE CURLED	.15	.35	1.00
CIANT CURLED	20	0.5	.75	DWARF EXTRA CURLED	0 .15	.20	.60
WHITE MUSTARD	10 .10	.25 .25	.75	MOSS CURLED	.15	.20	.60
NASTURTIUM				HAMBURG ROOTED GERMAN	.0 .15	.20	.75
TALL MIXED	.10	.20	.60				
DWARP MIXED	.10	.20	.70				



EXTRA EARLY ALASKA PEAS.



MARYLAND PRIDE PEAS.

PEAS

The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

G. & T. Co.'s First Early Peas

This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth, and ripening and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and in largely used by private families. Our sales of this sort increase annually.

NEW LARGE PODDED ALASKA.—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Early Bird Peas

Recently introduced. Hardy, prolific, early. Earlier than Alaska or First and Best. Large podded and very prolific. Fine luscious flavor. Hardiness unsurpassed.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the earliest varieties.

BOUNTIFUL.—Ripening about three to four days later than extra early sorts. Much longer and thicker pods. Beautifully shaped, dark green color which is retained after earlier varieties have turned grey. Seed dented, and we recommend this pea to all market gardeners and truckers.

PEDIGREE EXTRA EARLY.—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking.

PROLIFIC EARLY MARKET.—New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardener and family garden.

Large Podded Extra Early Sugar Variety

MARYLAND PRIDE PEAS.—Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska.

THOMAS LAXTON.—Habit and growth same as GRADUS, but pods are a deeper green color, square at the ends, having fine flavor.

IMPROVED THOMAS LAXTON PEAS.—Larger, better and greener than THOMAS LAXTON.

GRADUS, OR PROSPERITY.—Pale Green Wrinkled. The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit.

Peas by Weight	(about) (1 pt.)	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.	(1 bu.) 60 lbs.
G. & T. CO'S. FIRST EARLY NEW LARGE-PODDED ALAS		\$.40 .45	\$2.25 2.50	\$ 8.50 8.50
ALASKA		.40	2.25	8.00
FIRST AND BEST		.40	2.25	8.50
BOUNTIFUL PEDIGREE EXTRA EARLY		.50 .40	2.50 2.25	8.50 8.50
PROLIFIC EARLY MARKET		.40 2 lbs.	2.25 14 lbs.	8.50 56 lbs.
MARYLAND PRIDE		.50	2.75	10.00
GRADUS, OR PROSPERITY	.25	.50	2.75 2.50	9,00
IMPROVED THOMAS LAXTO	.30	.60	3.00	m o lba

Ask for prices in quantity. Add for postage, 8c. per 1b., 10 c. per 2 lbs.



NOTT'S EXCELSIOR

EVERBEARING

Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality.

ABUNDANCE

Height, 30 to 36 inches. An excellent half-dwarf, medium early wrinkled variety; pods 3½ inches long, containing 6 to 8 large Peas of excellent quality.

HORSFORD'S MARKET GARDEN

Height, 21/2 feet. A medium early wrinkled variety; highly recomended.

LAXTONIAN

large mammoth-podded wrinkled pea. Vine is dwarf and is fine for home garden.

	pt.)	(1 qt.)	(1 pk.)	
PEAS 1	1b.	2 lbs.	15 lbs.	56 lbs.
Peas by Weight				
Nott's Excelsior\$.25	\$.50	\$2.75	\$ 9.00
American Wonder	.25	,50	2.75	9.00
Laxtonian	.25	.50	3.00	10.50
Premium Gem	.25	.50	2.75	9.00
McLeans Gem	.25	.50	2.75	9.00
Gardener's Favorite	.25	.50	2.75	9.00
Advancer	.25	.45	2.75	9.00
Everbearing	.25	.50	2.75	9.00
Abundance	.25	.50	2.75	9.00
Horsford's Market Garden	.25	.45	2.75	9.00

Ask for prices in quantity.

Add for postage, 8c. per lb., 10c. for 2 lbs.

S-CONTINUED

Postage paid on one and two pounds. Larger amounts add postage.

DWARF EXTRA EARLY VARIETIES Nott's Excelsion

It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas. which in sweetness and quality have no superior.

AMERICAN WONDER

Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

PREMIUM GEM

Height 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

McLEAN'S LITTLE GEM

Similar to Premium Gem. but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled.

Second Early Half Dwarf Wrinkled Varieties

Height 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor; prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners as when packed they find the quality to be superior to any other sort.

ADVANCER

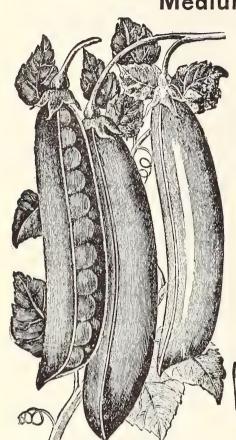
Height 21/2 feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction.



GARDENER'S FAVORITE



PEAS—CONTINUED Medium and Late Varieties



HEROINE PEA.—A medium early, green, wrinkled Pea, and one of the best of recent introduction: large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to $2\frac{1}{2}$ feet.

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored and very productive.

MELTING SUGAR (Edible Pods).—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad handsome light green pods, which are so brittle that they snap without any strings.

TALL GRAY SUGAR (Edible Pods).—Cooked in the pods same as Snap Beans.

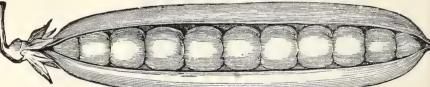
DWARF GRAY SUGAR (Edible Pods) -Quite a favorite.

TELEFICKE,—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled.

TELEGRAPH, or LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance.

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).—Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite.

FRENCH CANNER.—Height, 3½ feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing 7 to 9 peas of excellent flavor.



HEROINE PEAS.

IMPROVED SUGAR MARROWFAT PEAS.

PEAS MEDIUM AND LATE VARIETIES	Peas by Weight	1 lb.	(1 qt.) 2 lbs.	(1 pk.) 14 lbs.	(1 bu.) 56 lbs.
HEROINE CHAMPION OF ENGLAND TELEPHONE TELEGRAPH, OR LONG ISLAND MAMMOTH	• • • • • • • • • • • • • • • • • • • •	.25 .25	\$.50 .50 .50 .50	\$2.50 2.50 2.50 2.50 2.50	\$ 9.00 9.00 9.00 9.00 9.00
PEAS—EDIBLE POD	• • • • • • • • • • • • • • • • • • • •		.40	2.50	9.00
MELTING SUGAR. TALL GRAY SUGAR. DWARF GRAY SUGAR Ask for prices in quantity. Add fo	· · · · · · · · · · · · · · · · · · ·	.25 .25 .25 2 1bs.	.50 .50 .50		

HERBS

A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance. Care should be taken to harvest on a dry day just before they fully blossom.

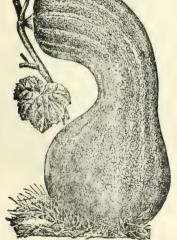
ANISE BASIL BENE, use medicinally. BORAGE, excellent for bees. CARAWAY CHERVIL CHICKORY	5c. 5c. 5c. 5c. 5c.	15c. 15c. 15c. 15c. 25c. 15c.	 	DILL FENNEL (Sweet) LAVENDER MARJORAM ROSEMARY, an aromatic herb. SAGE (American) THYME (broad-leaved English)	5c. 5c. 5c. 5c.	15c. 15c. 25c. 35c. 20c.	¼ lb.	
CORIANDER	5c.	10c.	 	THYME (broad-leaved English)	5c.	25c.		

GRIFFITH @ TURNER CO.









G. & T. CO.'S MARYLAND SWEET POTATO

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

LARGE BELL OR BULL NOSE.—Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick, mild flesh, of excellent quality for use in salads and pickles; color bright red when ripe.

RUBY KING.—An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored.

SWEET MOUNTAIN.—Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being when fully matured of a rich red color. Flesh very thick, sweet and mildly flavored.

CHINESE GIANT.—Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it

LONG RED CAYENNE.—A well known variety, having a slender, twisted and pointed pod about four inches long, and, when ripe, bright red in color. Extremely strong and pungent flesh.

pungent flesh.

RED CHERRY.—Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental.

RED CHILI.—Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe.

PIMIENTO—The mildest flavored of all peppers. Its productiveness makes it a desirable sort for the home garden or market. Its smooth, thick flesh and uniform shape makes it an excellent shipper. Should be planted in every garden where a delicious sweet-flavored pepper is wanted both for salad and for stuffing.

TOPEPO.—A new vegetable of exquisite flavor, combining the delicious qualities of the Pepper and Tomato. Splendid for salads, soups and flavoring.

TOPEPO.—A new vegetable of exquisite flavor, combining the de of the Pepper and Tomato. Splendid for salads, soups and flavoring.

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. Co.'s Maryland Sweet Potato

This is the best table pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor

LARGE CHEESE, OR KENTUCKY FIELD.—A very large, flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality.

TIMESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.

Connecticut Field

A fine, large, orange-colored variety used for field culture and stock feeding. The skin is smooth and ribbed and the flesh is brittle and sweet.

YELLOW CASHAW OR CROOKNECK .- Solid flesh fine and sweet; keeps well.

Sow in early spring in light, rich soil, in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury being left in the ground during the winter.

CANDWICH ISLAND MAMMOTH.—This new salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners.

LIDGZ WRITZ.—The old, well-known variety.



The old, Well-known variety.				
PEPPER	Pkt.	Oz.	½ Lb.	I Lb.
LARCE PELL, OR BULL NOCE	\$0.10	\$0.25	\$0.75	\$2.75
RUBY KING	.10	.30	.75	2.75
SWEET MOUNTAIN	.10	.30	.75	2.75
CHINESE CIANT		.40	1.25	4.57
LONG RID CAYENNE	.10	.30	.75	3.00
RED CHERRY	.10	.40		
RED CHILI		.40		
TOPEPO	.10	.50	2.50	
PIMIENTO.	.10	.35	.90	
PUMPIII				
G. & T. CO.'S ITARYLAND SWEET POTATO	.10	.15	,25	.80
LARGE CHEESE OR KENTUCKY FIELD		.10	.20	.60
TENNESSED CITET POTATO	.10	.15	.20	.80
CONNECTICUT FUELO		.10	.20	.60
YELLOW CASEAW OR CROOKNICE	-10	.15	.25	.80
SALSIF Y				
SANDWICH ISLAND MAMMOTT	.10	.20	.60	2.00
LARGE WHITE	.10	.20	.60	2.00

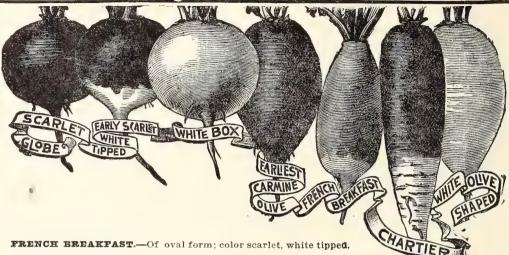
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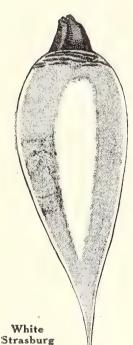


RADISH ONE OUNCE WILL SOW 100 FEET OF DRILL

For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.

EARLY SCARLET, OR PRUSSIAN GLOBE RAD-ISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy.





Radish.

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely.

EARLY RED TURNIP.—Turnip shaped; red skin; for forcing. Sometimes called Red Button Radish.

SCARLET CLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully.

EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip.

SUMMER VARIETIES

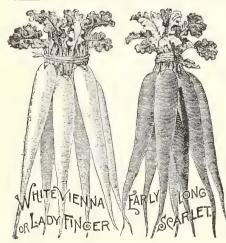
WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender.

GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

DELICACY.—Resembles White Strasburg, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

GOLDEN GLOBE.—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor.



LONG VARIETIES

CINCINNATI MARKET NEW GLASS RADISH .-

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snowy white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden.

LONG SCARLET (Finest Grown).—Very attractive and sells rapidly. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold.

i	RADISH	Pkt	Oz	1/4 1b	1	ľb	RADISH	Pkt	Oz	1/4 15	1 1h
Į	Early Scarlet or						Giant Stuttgart	. 9.10	\$-15	.25	æ .80
1	Prussian Globe.				\$.	.70	Chartier Delicacy	10	15	.25	.85 .75
	French Breakfast					.70	Golden Globe	10	.15	.25	.75
	Earliest White Turning					.70	Cincinnati Market	.10	.15	.25	.75 .75
	Early Red Turnip					.70	White Vienna, or				- 1
	Scarlet Olive Shaped.	10	.15	.25			Lady Finger.	10	.15	.25	.75 .75
	Early White Tipped Scarlet.	10	.15	.25		70	Long Scarlet	10	.15	.25	.75
	White Strasburg					.70					
1	White Strasburg	10	.1.0	.50		.,,					

8

RADISH

WINTER VARIETIES

WHITE CHINESE WINTER, OR CELESTIAL.—This excellent variety is sold also as Chinese White Winter. The roots are long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties. When fully matured the roots are six to nine inches long by about two and one-half to three and one-half inches is diameter. The flesh is compact and crisp.

CHINESE ROSE WINTER—Remarkably fine for winter use. The best of the winter sorts.

LONG BLACK SPANISH—A large winter variety; one of the hardiest, with dark green leaves, firm in texture, keeping until spring.

LONG WHITE SPANISH (Winter)—Fine keeping quality.
ROUND WHITE SPANISH—A good fall or winter variety.

RADISHES—Winter Varieties	Pkt.	Oz.	1/4 Lb.	1 Lb.
WHITE CHINESE, OR CELESTIAL	\$0.10	\$0.15	\$0.30	₹0.85
CHINESE ROSE WINTER	.10	.15	.30	.85
LONG BLACK SPANISH	.10	.15	.30	.85
LONG WHITE SPANISH	.10	.15	.30	.85
ROUND WHITE SPANISH	.10	.15	.30	.85

SPINACH



BLOOMSDALE SAVOY SPINACH

This is quite an important crop with market gardeners, and one easily managed. For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring sow in August, and protect the plants through the winter by a thick covering of clean straw or some other similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

BLOOMSDALE SAVOY SPINACH—The variety most generally used in the East, and especially throughout the South for shipping. Leaves large, round and thick, very much savoyed and rich, deep green. The old standard variety.

RESELECTED BLOOMSDALE SAVOY SPINACH—Grown from pedigree stock, carefully rogued each year for the true Bloomsdale Savoy Spinach plants.

IMPROVED LONG STANDING BLOOMSDALE SAVOY SPINACH.—A most desirable sort, very curly and dark green. Stands ten days longer, or more, than the other savoy types before going to seed. While it is a slow seeder, it requires a longer time before it is fit to cut, because it is a slower grower than the other Bloomsdale varieties.

VICTORIA LONG STANDING—Slow to run to seed, dark green in color. Good for spring sowing.

LONG SEASONS—Long standing; slow to run to seed; crimped, dark green. For spring sowing.

TRIUMPH—Long standing; slow seeder; crimped dark green. Good for spring sowing.

JULIANA—Long standing. The finest crinkled sort of the flat types. Lots of foliage and very shy seeder. Dark green foliage and fine for summer sowing.



LONG STANDING SPINACH

New Zealand Spinach

THE HOT WEATHER SPINACH will resist heat and make a strong growth during the summer. The plants will continue to grow until late fall, supplying all during summer and fall an abundance of rich green leaves. It cannot stand frost like other spinach; for family gardens only.

SPINACH	Pkt.	Oz.	1/4 Lb.	1 Lb.
BLOOMSDALE SAVOY		\$0.10	\$0.15	\$0.30
RESELECTED BLOOMSDALE SAVOY		.10	.15	.30
IMPROVED LONG STANDING BLOOMS-				
DALE SAVOY		.10	.15	.30
VICTORIA LONG STANDING		.10	.15	.30
LONG SEASONS		.10	.15	.30
TRIUMPH		.10	.15	.30
JULIANA		.10	.15	.30
NEW ZEALAND	0.10	.15	.30	.90
ASK FOR PRICES IN	QUAN	TITY		



RHUBARB OR PIE PLANT

ONE OUNCE OF SEED TO 125 FEET OF DRILL



Package, 10c.; Cunce, 20c.; 1/4 Lb., 35c.; 1 Lb., \$1.25

RHUBARB ROOTS

20c. Each.

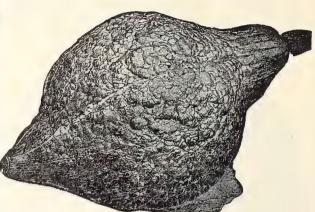
Dozon, \$2.00



Early White Bush Scallop

The squashes are all no progress made in quite tender, and therefore be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP—A desirable and market-able sort. Best known and most productive of all the summer sorts.

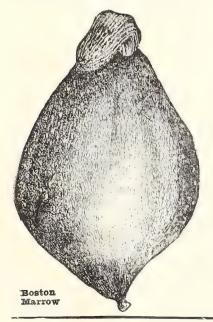


Hubbard

SUMMER CROOK NECK (Early)-Fine flavor; a desirable table sort.

WINTER CROOK NECK-Flesh red, fine flavor; largely grown for winter use.

HUBBARD—The most popular winter squash. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities.

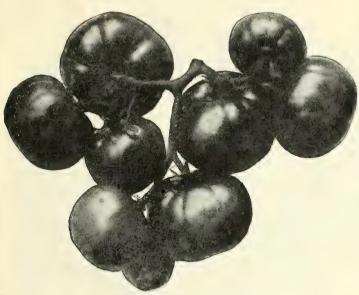


BOSTON MARROW-A popular variety, with large oval fruit. Skin bright reddish-orange, with light cream netting. Flesh orange. Fine grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red and delicious flavored dish.



Summer Crook Neck

SQUASH Pkt. EARLY WHITE BUSH SCALLOP. \$0.10 SUMMER CROOK NECK. \$0.10	Oz. \$0.15	1/4 Lb. \$0.25 .25	1 Lb. \$0.80 .75
SUMMER CROOK NECK. WINTER CROOK NECK. HUBBARD .10			
BOSTON MARROW	.15	.25	.75



BONNIE BEST TOMATO

For early fruit sow the seed in March or April in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four incnes high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes '/ill admit of training to stakes or trellis of various kinds, and the fruit is very much improved, both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow For early fruit sow the seed in March or April in the

note in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.

BONNIE BEST TOMATO

As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than
Chalk's Early Jewel and, within a day or two, if not
quite as early, as Spark's Earliana. Truckers who
tested it claim it is as early as Earliana.
It is a vigorous grower, very prolific, with dense
foliage, which protects the fruit from the hot sun when
other varieties like the Earliana have scalded fruits.

The fruit is even in size, smooth, round, red, of delicious flavor, ripening to stem.

It does not have the green surface like Earliana and other extra early varieties.



MARGLOBE TOMATO

EARLY WILT-RESISTANT VARIETY

which originated from a cross between Marvel and Globe. This cross was made by an expert plant breeder of the United States Department of Agriculture, with the purpose in mind of developing an early type of Wilt-Resistant tomato.

By crossing with the Globe it was found possible to select from the resulting hybrids a very desirable type of second-early tomato, combining the scarlet color of the Marvel with the globular form, fine texture and mild flavor of the Globe. With this excellence of fruit was carried the equally desirable character of Wilt-Resistance to the extent that Marglobe will continue to bear fruit and retain its green foliage when planted on wilt-infested soils, where the early varieties such as Earliana and Bonny Best will be overcome by the disease before their maximum fruit-bearing period has been reached,

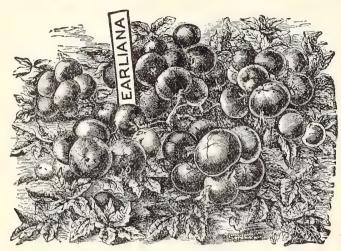
MARGLOBE TOMATO

CHALK'S EARLY JEWEL.—Deep fruited and solid. The growth is very compact. From solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor JOHN BAER.—New, early prolific. Fine flavor and shape; quite as early as Bonny Best. Fruit of uniformly good size:

TOMATO BONNY BEST MARGLOFE (Limited Supply) CHALK'S BARLY JEWEL	10	Oz. \$.30 .50 .30	1/4 L b. \$1.00 1.50 1.00	1 Lb. \$3.50 5.00 3.50
JOHN BAIR	.10	.30	1.00	3.50

EARLY RED VARIETIES

MAIN CROP



SPARKS' EARLIANA.—The earliest bright red Tomato; very large, smooth, color bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid.

EARLY I. X. L. TOMATO.—Earliest, largest, most prolific.

EXTRA EARLY RUBY

While not as early as Sparks' Earliana by a week or ten cays, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from actidity: It makes a splendid main crop variety; a great keeper and shipper.

EARLY PURPLE VARIETIES

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple It is well known and very largely used by our gardeners.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple.

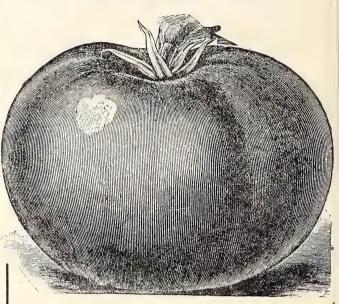
PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality.

SMALL FRUITED VARIETIES

PEAR SHAPED RED .-

PEAR-SHAPED YELLOW.—Used for preserves and pickles.

YELLOW PLUM.—Color bright yellow; excellent for preserving.



Griffith & Turner Co.'s World's Fair

The great canner. The six great points of this great canner—solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwith standing the fact that there are many much-newer varieties. Yet it has been so successfull that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

TOMATO WORLD'S FAIR	Pkt.	Oz.	1/4 Lb.	1 Lb.
WORLD'S FAIR	\$.10	\$.30	\$.75	\$2.50
SPARKS' EARLIANA	.10	.30	.85	3.00
EARLY I. E. L.	.10	.30	.85	3.00
EXTRA EARLY RUBY	.10	.40	1.10	4.00
BEAUTY	.10	.30	.85	3.00
DWARF CHAMPION	.10	40	1.10	4.00
PRIZETAKER	.10	.30	.85	3.00
PONDEROSA	.10	.40	1.25	
PEAR-SHAPED RED	.10	.35	1.25	
PEAR-SHAPED YELLOW	.10	.35	1.25	
YELLOW PLUM	.10	.35	1,25	
NEW STONE	.10	.30	.75	2.50
GREATER BALTIMORE	.10	.30	.75	2.50
LIVINGSTON'S FAVORITE	.10	.30	.75	2.50
PARAGON	.10	.30	.75	2.50
NEW SUCCESS	.10	.30	.85	3.00
NEW QUEEN	.10	.30	.75	2.50
RED ROCK	.10	.30	.75	2.50
WISDOM	.10	.30	1.00	3.50
MATCHLESS	.10	.30	.75	2.50
BRINTON'S BEST	.10	.30	.75	2.50
KELLY RED	.10	.30	.75	2.50
MY MARYLAND	.10	.30	.75	2.50

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MAIN CROP VARIETIES



THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth; with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firmfeshed (as its name indicates). It is an excellent shipper; not subject to rot.

"GREATER BALTIMORE" TOMATO.—Makes a fine crop.

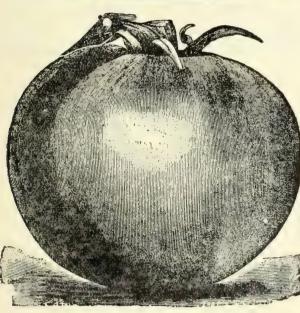
LIVINGSTON'S FAVORITE.— Bright red, smooth Tomato of good size.

PARAGON.—Well-known standard bright red Tomato.

NEW SUCCESS.—A magnificent new scarlet fruited Tomato of the finest quality, handsome appearance, large size and great productiveness.

NEW QUEEN TOMATOES.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

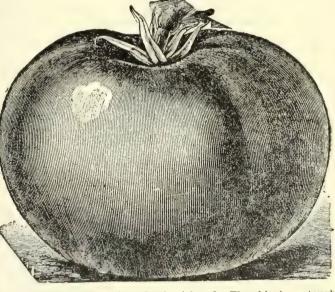
MY MARYLAND TOMATO.—My Maryland is an exceptionally heavy yielder of wonderfully uniform, well shaped, solid, smooth, bright red tomatoes. It is a second early or main crop variety, and the fruit is entirely free from roughness and cracks.



RED ROCK

One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. We think it is the coming tomato for main crop and canners'

WISDOM.—Recently introduced. Medium early; good cropper, fine size and flavor. Good for early or late planting.



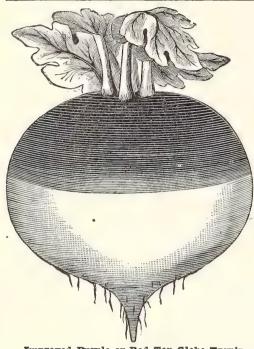
MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small.

BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome and a splendid keeper. A great favorite with canners and truckers.

RELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.

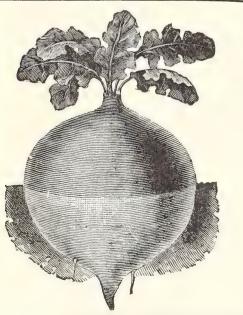
SEE PRICES OPPOSITE PAGE

TURNIF



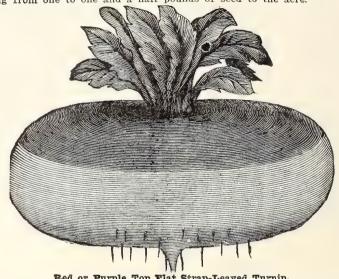
Improved Purple or Red Top Globe Turnip.

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety, and is one of the best for market use. It is also known as Red Top White Globe. Red Top White Globe.



G. & T. Co.'s Improved Purple Top Rutabaga.

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



Red or Purple Top Flat Strap-Leaved Turnip.

A very early, strap-leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. This sort is also known as Early Red Top. Strap-Leaved.

YELLOW ABERDEEN, or SCOTCH YELLOW—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

LARGE AMBER OF YELLOW GLOBE—Grows to a large size; flesh yellow, firm and fine grained. Excellent for either table use or feeding

SEVEN TOP-For greens and salads. Used largely in the Southern

States.

EXTRA EARLY PURPLE TOP MILAN—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

WHITE FLAT—Differs from Red Top only in color.

EARLY WHITE EGG—A new variety of rapid growth; egg-shaped and white, as its name indicates.

COW HORN (Large Croppers)—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

SOUTHER PRIZE—True strain of the favorite Turnip for greens in Virginia and Carolinas. Valued also for its bulk.

RUTABAGAS OR SWEDES

The Swede Turnips, or Rutabagas, grow much larger in size, and are of reater value for stock feeding than ordinary furnips. Every farmer at stock-raiser should grow Rutabagas and Stock Beets for winter greater

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP—Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.

TURNIPS IMPROVED PURPLE OR RED TOP GLOBE PURPLE TOP STRAP-LEAF YELLOW ABERDEE LARGE AMBER OR YELLOW GLOBE SEVEN TOP EXTRA EARLY PURPLE TOP MILAN WHITE FLAT EARLY WHITE EGG COW HORN SOUTHERN PRIZE	10 10 10 10 10 10 10	/4	1 Lb. \$.40 .40 .40 .50 .60 .40 .40 .40 .40
RUTAEAGAS G. & T. CO.'S IMPROVED PURPLE TOP PURPLE TOP		.15 .15	.50 .50

POTATOES

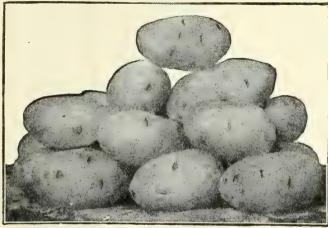
MAINE OR NORTHERN GROWN

ALL POTATOES SOLD BY WEIGHT ONLY

Owing to fluctuations in market for potatoes, ask for prices in quantity.

A Bushel Consists of 60 Pounds.

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. GRIFFITH & TURNER CO.'S PLANT FOOD is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



Extra Early Prize Potatoes

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

GREEN MOUNTAIN

This is a most excellent late Potato; it does remarkably well on poor soils, and is very free from disease; it resists drought wonderfully well and produces tubers of large size and attractive appearance; flesh white. It is a good keeper, and when put away in the fall will keep well until spring. Matures in 140 days.

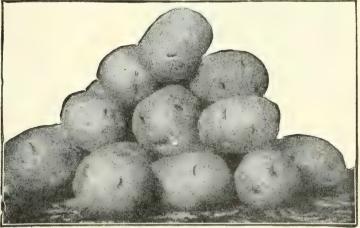
G. & T. CO.'S EXTRA EARLY PRIZE.—This potatoto is in all respects a very popular early sort. It proved to be early and productive; also found its eating qualities first class. We consider it the best early potato on the market today.

RED BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

SPAULDING ROSE.—The Early Rose led the list for over 30 years and is today one of the best early market Potatoes. Our stock of this is grown on new land near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember that this stock is not to be confounded with the old run-out Rose grown in other sections.

IRISH COBBLER (A New Sort).—Very productive, matures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. After years' experience we find that it is a very superior variety. Don't fail to get it.



Irish Cobbler Potatoes.

If wanted by mail, add for Parcel Post charge as per table on inside 1st Cover Page.

We are only listing a few of the best varieties of Potatoes this year, as we find it next to impossible to secure so many of the kinds we formerly listed true to name. The above kinds are Maine grown and first class in every respect.

Price, up to 15 lb. lots, at 5c. per pound. Write for price in quantity.

SWEET POTATOES

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

ASK FOR PRICE IN LARGE QUANTITIES.

YELLOW FIELD CORN

\$3.50.

Postage, 8c. per lb. extra.

90-DAY YELLOW—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. 1% lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu. \$3.50.

Postage, 8c. per lb. extra.

Postage, 8c. per lb. extra.

REID'S YELLOW DENT CORN—

Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and produces a great many stalks with two ears. A fine early corn. 134 lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50

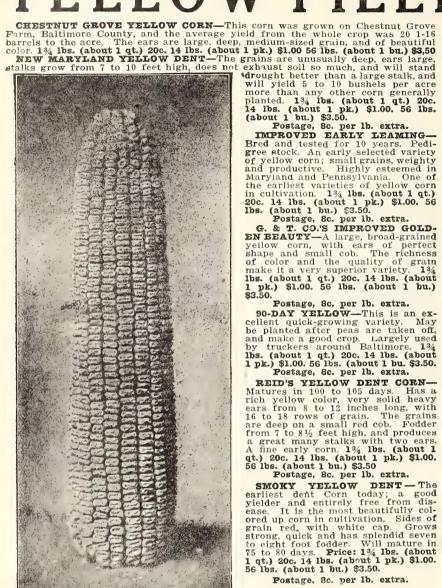
Postage, 8c. per lb. extra.

SMOKY YELLOW DENT—The

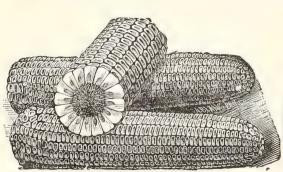
Postage, 8c. per lb. extra.

SMOKY YELLOW DENT—The earliest dent Corn today; a good yielder and entirely free from disease. It is the most beautifully colored up corn in cultivation. Sides of grain red, with white cap. Grows strong, quick and has splendid seven to eight foot fodder. Will mature in 75 to 80 days. Price: 134 lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50. 56 lbs. (about 1 bu.) \$3.50.

Postage, 8c. per 1b. extra.



Maryland Yellow Dent Corn



Golden Beauty (Yellow)

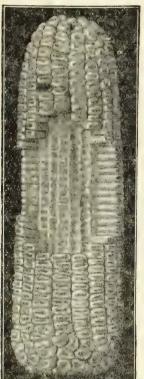


Improved Yellow Leaming



GRIFFITH @ TURNER CO





Boone County White Corn.

WHITE FIELD CORN

G. & T. CO.'S IMPROVED MARY-LAND WHITE DENT CORN.—After years of careful selection we have se-cured this improved White Field Corn:

years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. 134 lbs., (about 1 pt.) 20c. 14 lbs., (about 1 pt.) \$1.00, 56 lbs., (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

BOONE COUNTY WHITE.—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barrenstalks. Matures in 110 to 115 days. Prices: 134 lbs., (about 1 pt.) \$1.00, 56 lbs., (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

HICKORY KING WHITE CORN—Produces very large, broad, flat, white dent grains which are closely placed on a very slender cob. 134 lbs., (about 1 qt.) 20c. 14 lbs., (about 1 pt.) \$1.00, 56 lbs., (about 1 bu.) \$3.50

Postage, 8c. per lb. extra.

90-DAY CORN (White with red Cob.).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. Is suitable for either early or late crop. 134 lbs., (about 1 qt.) 20c. 14 lbs., (about 1 pk.) \$1.00, 56 lbs., (about 1 bu.) \$3.50.

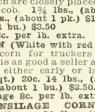
Postage 8c. per lb. extra.

WHITE ENSILAGE CORN.—Specially adapted for ensilage. 56 lbs., (about 1 bu.) \$3.50.

POOCORN POPPERS.—35c. each.

\$3.50





IMPROVED WHITE TARTAR.

The most remarkable Oats now under cultivation. Our customers say they will sow no others. These grand Oats outyield all others. The very best for all-around purposes. Greatest yielding variety in existence and rust-proof. Succeeds well on all soils. Straw is of golden yellow color, while the grains are white, with a slight golden cast. Withstands stormy weather. A measured bushel weighs from 36 to 42 pounds. Would highly recommend these oats to all our customers. Change your seed this season Rushel of 32 lbs. Write your seed this season. Bushel of 32 lbs., Write for price.

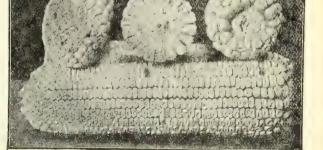
WHITE-SEED

For spring sowing, 32 p Extra heavy fancy White 32 pounds to the bushel.

WINTER TURF

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine. heavy grain weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.





Maryland White Dent Corn.

JOHNSON COUNTY WHITE CORN

A favorite white corn in the Western Corn A favorite white corn in the Western Corn Belt. Ears are a little longer than the Boone Co. White, but about the same diameter. Good deep grain on small, white cobs, and not quite so indented as the Boone Co. It will shell from six to seven bushels per barrel.

We recommend it as a fine general main crop sort. Will mature in about 120 days. Has

crop sort. Will mature in about 120 days. Has abundant foliage, which makes it also valuable

for ensilage purposes.
134 lbs., (about 1 qt.) 20c. 14 lbs., (apk.) \$1.00, 56 lbs., (about 1 bu.) \$3.50. (about 1

Postage, 8c. per lb. extra.

SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, recleaned and at reasonable prices. Write us August 1 for special prices for fall sowing

SEED BUCKWHEAT

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the western plains.

BEARDLESS FALL BARLEY .-- A fall variety without beards. Ask for prices.

BEARDED FALL BARLEY .-- A heavy yielder, much better than spring sown. Sow September for best results. Ask for prices.

HIGH-GRADE GRASS SEEDS



TIMOTHY



TIMOTHY (PHLEUM Pratense.)
This makes one of the most popular, nutritious and salable of This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands, or in mountainous districts, although it will do well on any good, stiff, loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard. Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with Timothy is either the Sapling or Alsike, as they mature and ripen with Timothy. Bushel, 45 lbs.

Timothy. Bushel, 45 lbs.

RED TOP, OR HERD'S GRASS (Agrosis Vulgaris.)—This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

UNHULLED RED TOP .in hull but free of chaff and impurities. Sow 2 to 3 bushels to the acre; 14 lbs. to the bushel.

FANCY CLEANED RED TOP .-Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed.

FANCY CLEANED RED TOP.—Sow 12 to 15 lbs. to the acre. 32 Lbs. to the Bushel.

RED FESCUE.—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep.

Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. 14 Lbs. to Bushe'

ITALIAN RYE GRASS.—Is an annual and should be sown every year at the rate of 50 pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. 20 Lbs. to Bushel.

ENGLISH RYE GRASS (Lolium Perenne).—This makes a quick growth very early in the spring, and is adapted for cool, moist locations.

60 lbs. to the 24 Lbs. to Bushel. acre

KENTUCKY BLUE GRASS .-- It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it for either lawn or pasturage. Sow in the spring or fall. 14 Lbs. to Bushel

ORCHARD GRASS (Dactylis glomerata).—One of the best and most reliable grasses for the Middle and Southern States, either for hay or reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. 14 Lbs. to Bushel.

TALL MEADOW OAT GRASS (Avena elatior).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green siloing it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel).

CREEPING BENT GRASS (Agrotis stolonifera). — Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth.

MEADOW FESCUE, RANDALL, or

MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis).—This should be very much more largely used than at present. It makes a very good hay and pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses.

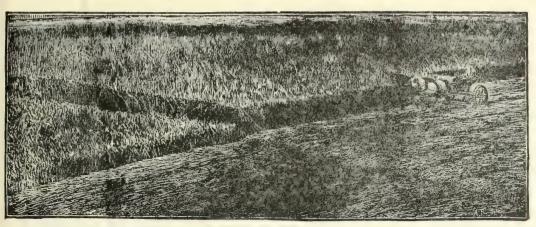


KENTUCKY BLUE GRASS



	Lb.	1 Lb.
THOTH!		KINTUCKY BLUE\$.28
RED TOP UNHULLED	.20	ORCHARD GRASS
RED TOP PANCY	.25	TALL MEADOW OAT GRASS
RED FESCUE	.50	CREETING BENT GRASS 1.50
ITALIAN RYB GRASS	.20	MEADOW FESCUE
ENGLISH RYE GRASS	.20	Ask for prices in quantity.

Grass Mixture for Hay and Permanent pastures



Prepared especially to meet the demand for a mixture that will be desirable for cutting for Hay or to use for Pasture, and contains such grasses as are hest adapted for these pur-In ordering noses please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND.—14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$4.50; 10 bushels for \$42.50. MIXTURE FOR LOWLAND.—14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$4.50; 10 bushels for \$42.50.

Grass and Clover Seed Mixtures, for Moving the Hay,

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended.
They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.
The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended.

MIXTURE No. 1.—For Molst Bottom Lands. Sow 25 lbs. to the acre. Price, Lb., 35c. 10 lbs. and over, 30c. per lb.
MIXTURE No. 2.—For Light, Dry, Gravelly or Sandy Soils. Sow 35 lbs. to the acre. Price, Lb., 35o. 10 lbs. and over, 30c.

per pound.

CLOVERS



ALSIKE CLOVER.



CRIMSON CLOVER.



WHITE CLOVER.



RED CLOVER.



LUCERNE OR ALFALFA CLOVER.

RECLEANED RED CLOVER.—We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have however, cheaper grades for those who wish them. 35c. lb.

Ask for prices in large quantities.

ALSIKE OR SWEDISH CLOVER.—Hardiest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone.

Lib., 35c.

Ask for prices in quantity.

Ask for prices in quantity.

WHITE DUTCH CLOVER.—Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. 1/4 lb., 20c. 1/2 lb., 30c. 1 lb., 50c. By mail, lb., 60c. 10 lbs., by express, not prepaid, \$5.00

LUCERNE OR ALFALFA CLOVER .- One of the most val-

LUCERNE OR ALFALFA CLOVER.—One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre. Lb., 300.

Special prices in large quantities on application.

CRIMSON CLOVER (The Great Nitrogen Gatherer).—The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 24c. per lb. Write for prices in quantity.

WRITE FOR SPECIAL PRICES ON ABOVE.

3

LAWN GRASS SEED



PREPARATION AND CARE OF LAWNS

The ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as smooth as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawnmower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

GRIFFITH & TURNER CO.'S EVERGREEN LAWN GRASS

This is a first-class mixture, prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, close-cut, velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. % 1b., (about 1 pt.) 20c., 34 1b., (about 1 qt.) 30c., by mail 35c.; 1½ 1bs., (about 2 qts.) 60c., 2½ 1bs., (about ½ peck) \$1.15, 5 1bs., (about 1 peck) \$2.00, 20 1bs., (1 bushel) \$7.00. By freight or express not prepaid.

GRIFFITH & TURNER CO.'S GOLF LINK MIXTURE

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have been mixed in proper proportion to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors. It is highly essential that golf and cricket grounds should be moved closer than ordinary lawns. 14 pounds to bushel. **Bushel**, **\$7.00**.

SHADY NOOK GRASS

On nearly all lawns there are bare spots under the shade of trees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state. Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake. Price: Lb., 50c. 5 Lbs., \$2.25. Bu. of 20 lbs., \$8.00. Add 8c. per lb. for postage.

"TERRACE" SOD MIXTURE

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong spreading roots, thus preventing heavy rains from washing them out: that will withstand drought and exposure, thrive on shallow soils, and at the same time will produce a rich, velvety green turf throughout the season. Pound, 50c. Peck, about 5 lbs., \$2.50. Bushel of 20 lbs., \$9.00

WHITE DUTCH CLOVER (Trifolium Repens)

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone; half the quantity when sown with other grasses. Pound, 50c. By Mail, 60c. 10 pounds, by express, not prepaid, \$5.00.

FORAGE AND SILO SEEDS

SHOULD BE SOWN IN THIS LATITUDE, NOT BEFORE MAY 15th, AS THE SEED WILL NOT STAND COOL, WET WEATHER. The great soil enricher. Makes poor land rich and good land better. They also make good green forage for ensilage, and the best quality of Hay when cut and cured.

The sowing of COW PEAS is one of the cheapest as well as the best means of improving the soil. They can be turned down for green manuring, or, if allowed to ripen cut Peas off and cure for hay; turn down roots, which will give as good results as when whole plant is used. For ensilage they are unsurpassed, being more nutritious than green corn, but when used for this purpose, would advise sowing Sugar Cane or Sorghum in connection with them. The two combined will make one of the very richest feeds. Ask for prices.

BLACK—This is the standard variety, and the one most largely grown in this immediate section. It is very prolific, makes a fine growth, both of vine and leaves and a good yield of peas. It is a splendid land improver, and most valuable as a forage crop, and makes an enormous yield of rich, nutritious feed.

WHIPPORWILL—A favorite, early, upright-growing variety, more largely used and sold than any other kind. Has brown speckled seed, which are easily gathered Makes a good growth of vine, which can be easily cut and cured as dry forage. We recommend this where an early variety of good growth and height is desired.

WONDERFUL, OR UNKNOWN—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it produces very largely of the shelled peas. This variety should be planted in May in order to come to full maturity.



COW PEAS

NEW ERA—An early maturing variety which has proved very popular and satisfactory. It is upright growing, quick to mature, and remarkably prolific of peas. Rather small vine, which cures easily, making splendid dry forage. The seed are smaller in size than the ordinary cow pea, so that it does not require as many to seed an acre; from three-fourths to one bushel per acre will give ample seeding. PRICES ON

SORGHUM, OR SUGAR CANE, FOR FODDER

EARLY AMBER grows 10 to 12 feet high, and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. Pound, 10e. Peck,———.

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons. Prices .ame as Early Amber.

SOJA BEANS

The great drought-resisting forage crop; unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, or it may be planted in drills three feet apart and one foot between plants. Price on application,

MAMMOTH YELLOW SOJAS

The largest-growing and most popular of soja beans for forage purposes. A little later in maturity than her kinds, but makes larger yields, both of forage and seed. Especially valuable for the South. other kinds, but makes larger yields, both of forage and seed.

HOLLYBROOK EARLY SOJAS

Makes a quicker growth and matures their crop wakes a quicker growth and matures their crop two to three weeks earlier than the mammoth Yellow Soja. It makes a large yield, both of forage and peas, and the added advantage of its earliness makes it a most distinct and valuable acquisition. It is a sure cropper and a vigorous, quick-growing variety. Sown as a forage or hay crop, it is much easier to cure and handle, and makes even a more nutritious crop than covered.

WILSON BLACK SOJAS

One of the best, in our opinion, for the Northern Average height on good land is 2½ to 3 feet. A prolifer variety and requires about 90 days to be ready to cut for hay.

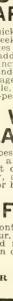
KAFFIR CORN

The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre.

ASK FOR QUOTATIONS ON ABOVE.



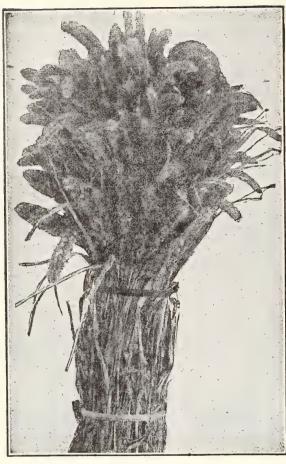
EARLY AMBER CANE





GENUINE KAFFIR CORN





GERMAN MILLET.

GERMAN MILLET.—A fine, quick-growing summer Hay crop. Produces splendid crops of fine nutritious hay. Grows quickly and easily cured. Should be sown thick, not less than one bushel per acre. Cut while in flower. Do not wait until seed becomes hard in head. If allowed to get too ripe stalks get hard and do not make as good quality of hay as when cut at proper time. It should be sown any time after middle of May up to first of August. Should not be sown too early, as seed will not germinate until soil and weather is warm. A crop will mature in seven to eight weeks in ordinary warm growing weather. Price, Lb., 10c. Peck,——. Ask for price by the bushel.

HUNGARIAN MILLET is of the same family as German Millet, but is not used as extensively, as it requires stronger soil. However, it makes a very fine quality of hay, and like German Millet is fairly good substitute for Timothy. Hungarian Millet can be sown at the same time as German. Price, Lb., 10c. Peck, Ask for price by bushel.

Sown in February, March or April, with a small quantity of oats, they make large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half bushel of oats. Cut for hay before the

Write for Special prices if a quantity is required.

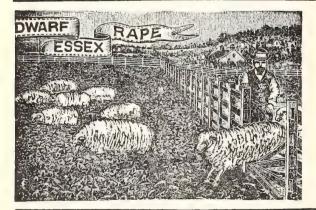
To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the

The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN.—This is the favorite sort; has a fine brush, yields well and keeps green. Height, 8 to 9 feet.

Lb., 30c. postpaid. 10 lbs. @ 25c. lb.

Growing to double the size of the common sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known. Lb., 15c.



DWARF ESSEX RAPE

It can be sown all through the season; being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 lbs. to the acre, or 2 to 3 lbs. in drills. It is unequaled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. Lb., 12c.: by express, 10 lbs. and over, 10c. lb., not prepaid; \$9.00 per 100 lbs. If wanted by mail, add 8 cents for postage.

TARES VETCHES OR

TEOSINTE

A most valuable and enormous-yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way.



VETCHES.

FLAKSEED,-Lb., 12c. 3 lbs., 35c.

PRICES SUBJECT TO CHANGE. ASK FOR QUOTATIONS ON QUANTITIES

SELECTED FLOWER SEEDS

GENERAL DIRECTIONS FOR CULTIVATION

Hardy Flower Seeds should be sown in the open, after danger of frost is past, in well-worked and moist soil. Seeds of medium size, put at depth of one-quarter to one-half inch. Very fiine seeds press into the soil, and cover slightly with a little sand or sphagnum moss. If seed is not deep, water frequently. When up, transplant from two to twelve inches apart, according to variety of plants. Do not leave too thick as the plants will be weak and spindling. Keep weeds out of the flower beds. Annuals may be planted in early spring, and bloom the first season only. Biennials bloom the second year from seed, and then die. Perennials bloom the second year from seed, and plants live to bloom during successive years. Varieties marked ("A") stand for Annuals. Marked ("B") Biennials. Marked ("P") Perennials.

ANNUALS

Alyssum Aster Balsam Calendula Calliopsis Candytuft Marguerite carna-

Ageratum

tion Celosia Cockscomb

Summer Chrysan- Hollyhock themum Convolvulus Minor Marigold Cosmos Dahlia. Escholtzia Gaillardia Godetia Helichrysum

Lohelia Maryel of Peru Mimulus Mignonette Forgetmenot Petunia

Poppy Portulaca Ricinus Salvia Scabiosa Stocks Verbena Vinca. Wallflower Zinnia

Canterbury Bell Delphinium Chinese Pink Foxglove

Gaillardia Hollyhock
Hardy Phlox
Orientale Poppy
Sweet William

ASTERS

Phlox Drummondii ORDER BY NUMBER



Valuable for bedding as it is literally covered with blossoms all summer. Sow the seed early in the spring, either in boxes to transplant, or outdoors and thin to 4 to 6 inches.

Packet, 10c.

10. ALYSSUM (A).—The Sweet Alyssum has pretty little flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed, blooms the whole season.

Packet, 10c.

11. ALYSSUM (A) (Tom Thumb).

Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn.

Packet, 10c.

Amaranthus

AMARANTHUS, MIXED (A).—Showy, blooming plants, with long, racemes of curious-looking flowers, and brilliant foliage; half hardy annuals. Packet, 10c.

AMARANTHUS, TRI-COLOR (Joseph's Coat) (A).—Red, yellow and green foliage. Packet, 10c.

AMARANTHUS CAUDATUS (Love Lies Bleeding) (A).—Graceful and handsome flowers of blood-red hue. Pkt., 10c.

ANTIRRHINUM, or Snapdragon has become very popular both for forcing and outdoor growing. The flowers coming in shades of pink, rose, salmon and other light colors are very attractive, while the stronger orange-scarlet and scarlet tints are glorious. They are a biennial and may be sown in fall or spring out doors. Set out the young plants not less than twelve inches apart. Packet, 10c.

BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centaurea Cyanus).—A very old favorite garden annual with handsome flowers of various colors. It does best if sown in a hot-bed; half hardy annuals; two feet. Packet, loc.

DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper or Forget-Me-Not).—The well-known balsams are one of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. Packet, 10c.

41. BALSAM PERPECTION WHITE (A).—This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists.

Packet, 10c.

Sow seed in March and April in cold-frame or boxes in the house, covering them ¼ inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way in well prepared beds.

6. ASTERS, CHINA (A).—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden.

Packet, 10c.

7. ASTER, TRUFFAUT'S PERFECTION (A).—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round with incurved petals. Packet, 10c.

perfectly round with incurved petals. Packet, 10c.

, VICTORIA ASTER (A).—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height, 15 to 18 inches.

Packet, 10c.

Packet, 10c.

COMET ASTER ().—This class of Asters has long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ inches to 4½ inches in diameter, which resemble the Japanese Chrysanthemum. Packet, 10c.

SEMPLE'S BRANCHING ASTER, MIXED (A).—The finest, late blooming Aster. The deep, heavy, incurved flowers on rigid stems often 2 feet and more in length, which makes it one of the most valuable varieties for cutting.

34. BRANCHING ASTER (A) (White).—Very choice. Packet, 10c.

BRANCHING ASTERS .- Pink, purple, crimson, 10c. each.



CORNFLOWER



FLOWER SEEDS THAT GROW

- 45. CANDYTUFT, MIXED (A).—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering. Packet, 10c.
- 46. CANDYTUFT, WHITE (A).—Treated and used same as the mixed. Packet, 10c.
- 53. CALENDULA (Pot Marigold) (A).—Very hardy annual, one foot high, blooming freely. Is of the easiest culture; desirable for rather inferior soils, where less sturdy flowers do not thrive. Packet, 10 c.
- 55. CANNA, MIXED (Extra Choice) (A).—The Cannas are desirable not only for the beauty of their spikes of scarlet flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate. Packet, 10c.

CANTERBURY BELLS

A hardy biennial, blooming the second year from seed, or the first year if sown early. Easily grown and preferring rich, moist soil. Valuable for beds and borders.

- 60. CANTERBERRY BELLS, SINGLE MIXED .- Pkt., 10c.
- 61. CANTERBERRY BELLS, DOUBLE MIXED. Pkt., 10c.
- 70. CHRYSANTHEMUMS, SINGLE MIXED (A).—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. Packet, 10s.
- 71. CHRYSANTHEMUMS FRUTESCENS (A).—(The Marguerite, or Paris Daisy).—Immense quantities are grown by by French florists, and find a ready sale. It produces freely its white, star-like flowers under the most favorable conditions. Packet, 10c.
- 76. CINERARIA HYBRIDA (P).—Large flowering prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. Packet, 25c.
- 77. CINERARIA HYBRIDA DWARF (P).—Large flowered, dwarf prize varieties; splendid strain. Packet, 25c.



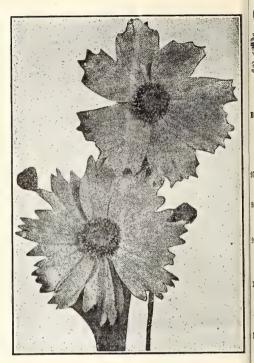
80. CLARKIA, MIXED (A).—An old favorite hardy annual plant, growing in any garden soil and producing freely its cheerful flowers early in the season. Packet, 10 c.

85. COCKS-COMB (Celosia Cristata).—A half-hardy annual, growing 6 to 8 in. high, bearing a wide, wavy blossom that resembles a cock's comb. In brilliant colors; fin e for massing or border work. Pkt., 10c.

86. COCKS-COMB (Celosia Plumosa).—The plumes are splendid and 2 to 3 feet tall. Strain is fine. Packet, 10c.

88. **COWSLIP** (P).—Beautiful hardy spring flowers of different colors. **Packet. 10c.**

90. CONVOLV-ULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. Packet, 10c.



CALLIOPSIS

93. COREOPSIS(A).—Quick growing, free-flowering annuals, fine for bedding and make quite useful cut flowers of yellow and brown color. Sow where they are to bloom and thin out to 6 to 12 inches apart. Height 18 inches to 2 feet

Page COREOPSIS LANCEOLATA (P).—This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost. Excellent for cutting; will thrive in almost any situation. Packet, 10c.

COSMOS

COSMOS. One of the very finest late summer and fall flowers; excellent cut flowers. The bushes grow tall, six to eight feet, and are loaded with large, showy blossoms, in white, pink or crimson. Cosmos should be in every garden. Sow the seed early and transplant,, or later in spring where it is to remain. Hardy annual.

- 94. EARLY FLOWERING. (Dawn) (A).—This early Flowering strain will begin blooming as early as July and will continue until frost; flowers large. Packet, 10c.
- 95. COSMOS, Mixed (A) .- Packet, 10c. Oz., 35c.
- 95a. COSMOS. Pink (A) .- Packet, 10c.
- 95b. COSMOS, White (A).-Packet, 10c.
- 95c. COSMOS, Crimson (A).—Packet, 10c.
- 95d. MARGUERITE or Crested Mixed (Anemone Flowered).

 New early flowering strain. Sometimes called double.

 Packet, 10c.

CHOICE FLOWER SEEDS



112. HELIOTROPE (A).-These are deliciously fragrant flowers remaining in bloom a long time; fine for pot culture or bedding: half-hardy annuals. Pkt., 10c.

113. HELICHRYSUM .- The most nonular of all Everlasting Flowers. In form somewhat like an Aster. The colors are bright and the flowers are very attractive when dried. Pkt., 10c.

BELLIS perennis (Double Daisy.) Low growing plants entirely hardy. Seed may be sown early in shallow drills and later thinned out to stand one foot

97. DAISY, MIXED (P) .-Packet, 10c.

98. DAISY, LONGFELLOW (P).

—This is a very pretty, large, double pink variety. Pkt., 10c.

o. DAISY, SNOWBALL (P).—An unusually large-flowered variety, and produces very double, pure white flowers. Packet, 10c.

DAHLIA.—These will bloom the first year from seed if seed is sown in February or March. However, roots are more satis-

0. DAHLIA, SINGLE MIXED (A).—Large, showy single flowers. Packet, 10c.

Ca. DAHLIA, CACTUS (A).— A most curious and desirable va-riety of many colors. Pkt., 10c.

3. FEVERFEW (GOLDEN FRATHER) (Pyrethrum Aureum) (P).—A highly ornar antal golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet.

Packet 10c.

os. FORGET-ME-NOTS (Myosotts) (P).—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy pernnials; blooming the first year from seed, if sown early.

Packet 10c.

6. FOXGLOVE (DIGITALIS)
(P).—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places. Packet, 10c.

7. GERANIUM (New Zonale)
(A).—A grand strain of Geraniums, containing all shades of
colors. Packet, 10c.

9. GAILLARDIA (A). — Very attractive plants, producing a profusion of bloom the entire summer and autumn. Halfhardy annuals. Packet, 10c.

o. GILIA MIXED (A).—Very pretty dwarf plants,early, free blooming, fine for massing and rock work. Hardy annuals. Packet, 10c.

HOLLYHOCK

Produces tall spikes of blooms the second spring from seed. Although a bi-annual, in some localities it is peren-nial. The height is varying but the plants usually grow from 6 to 8 feet tall. They should be spaced at least two feet apart.

115. HOLLYHOCK, CHATERS SUPERB MIXED (P).—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers. Pkt., 5c.

6. HOLLYHOCK, CHATERS DOUBLE WHITE (P).—Packet, 10c.

HOLLYHOCK, ROSE—Packet, 10c. HOLLYHOCK, PINK—Packet, 10c.

DELPHINIUM

(Hardy Perennial Larkspur)

Sow seeds in early spring, in hot bed or shallow boxes indoors. When seedlings are about ¾ in. high, transplant to flats, three or four inches apart, each way; transferring them to open ground when weather is suitable. Seeds can also be sown in open ground, but would not be likely to bloom until second year. Packet of mixed varieties, 10c. each.

DELPHINIUM-LIGHT BLUE-Packet,

DELPHINIUM-DARK BLUE-Packet. 10c.



LARKSPUR (Annual) -Best known of garden flowers. Sow seed in open ground, before close of April, for plants to begin flowering in July, and then a continuous succession of blooms until frost. Effective for beds and fine for cut flowers. Mixed varieties. Pkt., 10c.

LARKSPUR-Emperor.-Best Double Varieties. Pkt., 10c.

LARKSPUR

LOBELIA

beautiful and popular flower, very desirable for pot culture, beds or hanging baskets because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers. white flowers.

122. MIXED VARIETIES (A) .- Pkt., 10c. CRYSTAL PALACE COMPACTA (A).
Rich deep blue. The finest for bedding. Packet, 10c.

5. MARIGOLD, DOUBLE AFRICAN (A).

—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers. Pkt., 10c.



MARIGOLDS

126. MARIGOLD, DOUBLE FRENCH (A).
—Of compact habit, with numerous bright, showy flowers. Very fine. Facket, 10c.

O. MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A).—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. Two feet. Packet, 10c.

MESEMBRYANTHEMUM CHRYSTA-LINUM (Ice Plant) (A).—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. Half-hardy annuals. Pkt., 10c.

MIMULUS - The beautiful Monkey Flower. Packet, 10c.

MIGNONETTE.—The delightful fragrance of the Mignonette makes it a universal favorite. Sow seed in the fall for early blossoms in the spring. Valuable for potting, bedding or for border.

5. MIGNONETTE — SWEET (Reseda Odorata — A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. Pkt., 10c. Oz., 20c.

136. MIGNONETTE—PYRAMILAL—Large flowered. The largest flowered of all Mignonettes. Annual.

Packet, 10c.

7. MACHET—True dwarf-growing variety; enormous spikes of beautiful, deep reddish crimson flowers; height 1 foot. Packet, 10c.

st. MIGNONETTE VICTORIA (A).—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. Packet, 10c.

139. ALLEN'S DEFIANCE (A).—When grown under favorable conditions, and with proper care, spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety.

Packet, 10c.

STIM-U-PLANT-Makes a Wonder Garden.

CHOICE FLOWER SEEDS



NASTURTIUMS

Sow the seed where it is to remain late in the spring and after danger of frost is over. It is seldom necessary to thin the young plants, as they will bloom if close together. Nasturtiums prefer dry, rather rocky soil, and bear their flowers in such locations in greater profusion than in a rich garden where they run too much to leaves.

142. DWARF MIXED.—The dwarf variety of Nasturtiums is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color, and profusion of bloom; mixed colors. Oz., 10c.

143. DWARF NASTURTIUM—AURORA
—Blush white and salmon, blotched
with garnet. Oz., 15c.

144. DWARF NASTURTIUM BEAUTY.
Bright scarlet striped with yellow.
Oz., 15c.

145. DWARF NASTURTIUM (Empress of India).—Very dark foliage with deep crimson flowers. Oz., 15c.

146. DWARF NASTURTIUM (Golden King).—Brilliant yellow. Oz., 15c.

147. DWARF NASTURTIUM (King of Tom Thumb).—Brilliant yellow flowers blotched with maroon. Oz.15c.

148. DWARF NASTURTIUM (Ruby King).—Light ruby red. Oz., 15c.

149. DWARF NASTURTIUM (Cloth of Gold).—Golden yellow foliage, light scarlet flowers. Oz., 15c.

150. KING THEODORE — DWARF — Black-brown foliage. Oz.,15c.

310. TALL OR CLIMBING NASTUR-TIUM—Of quick growth, covering a wall, hedge or trellis in a short time. The seed pods can be gathered while green and tender for pickling. Oz., 10c.

OXALIS

153. Pretty little, half-trailing annuals for hanging baskets. Mixed annual sorts. Packet, 10c.

PANSIES

Thrive best in a moist, shady location, and in rich loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers late in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden.

155. **HEARTSEASE**.—Mixed. An old but universally admired plant, producing an endless variety of color. They may be treated as annuals. **Pkt.**, **10c**.

156. GIANT TRIMARDEAU.— Remarkable for the extra large size of the flower and an endless variety of beautiful shades. Packet, 10c.

157. G. & T. CO.'S EXTRA MIX-ED.—This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactiory results to both florists and amateurs in the past. Packet, 15c.

PETUNIAS

Petunias grow with little attention or care and in any soil when once started and bloom profusely all spring and summer.

165. FINE MIXED.—Good mixture of small, free-blooming colors. Packet, 10c.

168 PETUNIA.—Double Mixed. — The flowers of this sort are very beautiful. Packet, 50c.

PETUNIA, Single—Fringed, mixed. Extra choice. Packet, 50c.

175. PHLOX DRUMMONDII (A).—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil.

Packet, 10c.

176. PHLOX DRUMMONDH—Nana Compacta).—(A).—Very fine mixed. This new strain is of dwarf compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing. Packet, 10c.

180. PINK CARNATION, or PICOTEE.

—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. Pkt., 10c.

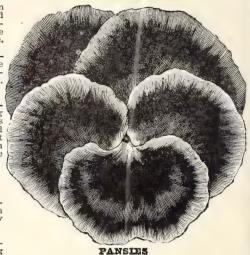
181. PINK CARNATION (Riviera Market, or Gillaud).—This is the only variety that will produce flowers the first season. They will thrive either in open ground or in pots. Pkt., 25c.

182. PINK CARNATION (Marguerite)
(P).—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades. Will bloom all summer until frost or indoors in winter. Pkt., 10c.

185. PINK—CHINA Dianthus Chinensis) (P.).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant. Packet, 10c.

200. POPPY - CARNATION (Papaver)
(A).—A showy and easily cultivated hardy annual, with large, brilliant colored flowers, growing freely in any garden soil. Packet, 10c.

201. POPPY—PEONY FLOWERED
(A).—A magnificient species, large, showy, double globule flowers, resembling Peonies in shape. Pkt., 10c.



beautiful Poppes are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. Pkt., 10c.

203. TULIP POPPY (A).—A magnificent species. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. Pkt., 10c.

204. ICELAND POPPIES, MIXED (A).—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. Pkt., 10c.

ESCHSCHOLTZIA (California Poppy).—
A bright and handsone flower. Grows easily and will re-seed itself. Pkt. 10c.

ORIENTALE—The large Oriental Poppy. A hardy plant, bearing large, brilliant crimson flowers with black blotch on each petal. **Packet**, **10c**.

195. PORTULACA (Mexican Rose) (A).

—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light, loam or sandy soil; fine for massing in beds or edgings of rock work. Pkt. 10c.

196. DOUBLE PORTULACA (A).—Packet, 10c.

212. RICINUS, CAMBOGIENSIS (A).—
Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half hardy annuals.

Packet, 10c.

212½. RICINUS ZANZIBARIENSIS, MIXED (A).—Their immense leaves and gigantic plants exceed all other varieties. Packet, 50c.

213. SCABIOSA (Mourning Bride) (P).
—especially adapted for cutting and massing. Flowers are double clear to the center, covering the thimble-shaped cone. Height 2½ ft. Pkt., 10c.

GRIFFITH @ TURNER CO.

HIGH-GRADE FLOWER SEEDS

240. SWEET WILLIAM (Dianthus Baratus) (P).—A well-known, free flowering, opular favorite; the great improvements pon the old varieties made within the last bw years have rendered it still more de-leable. Hardy perennials. Packet. 10c.

SWEET VIOLET .owers do best propagated from cuttings, ley grow readily from seed, and have very fragrant blossom. Packet, 10c.

245. MAMMOTH VERBENA (A).—One f the most popular and useful bedding lants. Verbenas delight in sunny situations, rich soil and thorough cultivation. acket, 10c.

250. VINCA ROSA (A) .- Rose with dark re. Packet, 10c.

251. VINCA ALBA (A).—White with imson eye. Packet, 10c.

WALLFLOWER, DOUBLE (A) .ell known, deliciously fragrant plants, ith large spikes of double flowers similar the Gilliflower. Succeed in light, rich oll, in a moist atmosphere. Perennials. acket, 10c.

SALVIA Flowering Sage

The flowering sages are half hardy perennials but best results are obtained by using fresh plants each year from seed sown indoors.

215. SALVIA SPLENDENS (A).—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half hardy perennial, blooming the first year from seed. Three feet. Packet, 10c.

220. SENSITIVE PLANT (Mimosa)—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 10c.

STOCKS.—No matter if situation is cold and windy, stocks will bloom there and give the garden color when otherwise it might be bare. Stocks are of easy culture, are hardy, very beautiful and satisfactory.

0. TEN WEEKS STOCKS (Gilliflower)—A world-wide favorite, brilliant varied in color, equally well-adapted for massing, bedding, edging or pot are. Very profuse bloomers. Should be grown in rich soil. **Packet, 10c.** culture.

231. STOCKS—SNOWFLAKE IMPROVED—A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers. Pkt., 10c.

237. SWEET ROCKET (Hesperis).—A hardy perennial growing 2 to 3 feet high. This old-fashioned, fragrant flower is of the easiest culture, and bears clusters of white and purple blossoms. Mixed. Packet, 10c.

ZINNIAS

One of the most popular of our hardy anials for beds, mixed borders and for cutng purposes; easy to grow in any good urden soil. They commence flowering rly in the summer and continue until

258. ZINNIA ELEGANS (A).—This is ne of the most brilliant of annuals, has ng been a general favorite. The flowers re large, finely formed, in great variety colors, and continue to bloom the entire ason. Half-hardy annuals. Packet. 10c.

GIANT DAHLIA PLOWERED ZINNIAS A beautiful new type closely resembling corative dahlias in form and in the arngement of the petals. They attain a sight of 3 feet, producing large blooms of stinctive colorings.

GOLD MEDAL MIXTURE .- Packet, 10c.

DAHLIA-FLOWERED - 01d ose. Packet, 10c.

ZINNIA: DAHLIA-FLOWERED ... Golden ate. Packet, 10c.

DAHLIA-FLOWERED-Lemon auty. Packet, 10c.

ZINNIA: DAHLIA-FLOWERED-Purple ince. Packet, 10c.

259. ZINNIAS CURLED AND CRESTED .) .- New, odd and superb. Petals twisted, rled and crested into fantastic contorons and graceful forms. A magnificent riety of colors. Packet, 10c.

260. ZINNIA—DOUBLE POMPON (A). Long, coneshaped flowers, very fine. Pack-. 10c.

ZINNIA-CRIMSON-Packet, 10c.

ZINNIA-WHITE-Packet, 10c.



DAHLIA FLOWERED ZINNIA

FLOWER SEEDS

GENERAL LIST OF CLIMBERS

270. BALSAM APPLE (Momordica) (A)—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 10c.

272. BALLOON VINE (Love in a Puff) (A)—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 10c.

275. CANARY BIRD FLOWER (Peregrinum).—A tender climbing annual of the nasturtium family. Blossoms have curiously wrinkled petals and are light yellow. Soak seed over night before planting. Packet, 10c.
276. COBEA SCANDENS (P)—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c.

10c.
27s. CYPRESS VINE, RED (Ipomea Quamoclit) (A).—One of our most popular vines, with very delicate, fern-like foliage and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 10c.
279. CYPRESS VINE, WEITE (A).—Usually grown with the red, making a handsome effect. Packet, 10c.
295. HEAVENLY BLUE IPOMEA (A).—The flowers are in large, airy clusters, and that lovely hue so rarely seen. Flowers four to five inches across. Packet, 10c.
300. MORNING GLORY (Convolvulus Major).—One of the most free-flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 10c.

Packet, 10c.
302. GIANT JAPANESE MORNING GLORY.—These are by far the handsomest of the Morning-Glories, of gigantic Packet, 10c.

305. MOON FLOWER (Ipomoea Noctifiora)—Charming and popular blooming cumbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them. Packet, 10c.

320. SCARLET BUNNERS.—Very handsome climbin Beans, with bright scarlet flowers. Packet, 10c. 326. SMILAX.—Charming climber for greenhouses or wird dow gardens. Packet, 10c. 285. MIXED GOUED (Cucurbita) (A).—Packet, 10c. 286. NEST EGG GOUED (A).—White fruit shaped like an egg. Used as a substitute for nest eggs. Packet, 10c. 287. DISHCLOTH GOUED—Many women prefer a districted that and clean as long as any part is left. Packet, 10c. 288. DIFFER GOUED (A).—Makes an excellent dippe Packet, 10c.

Packet, 10c.
290. MOCK ORANGE (P).—Fruit shaped like an orang

291. CALABASH OR PIPE GOURD.—Odd shaped frui which is used to advantage in making pipes. Packet, 10



ORNAMENTAL GOURDS

SWEET PEAS should be sown in drills latter part of November for fall planting, or as early as possible i spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can b done, making a furrow four to six inches deep. In this sow the seed and cover two inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure

a deep planting without the bad effect of deep covering of th seed at first, and so enable the plant to bloom continuously through the heat of summer.

The roots should not be allowed to become too dry. Wate applied thoroughly once or twice a week, preferably early in th morning or in the evening, is usually better than light sprinkling more frequently.

The blooms should be picked before they form pods or the plants will soon stop flowering.

For the aphis or plant louse, spraying with solutions of som tobacco extract or whale-oil soap is usually effective; and for th Red Spider, which also causes trouble at times, spraying wit pure water is usually sufficient. A frequent change of location has also bee

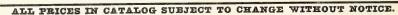
found important. 377. G. & T. CO.'S EXTRA FINE MIXED-Consists of the very choices

varieties mixed in the newest colors and shades.

Oz., 10c. ¼ Lb., 25c. ½ Lb., 40c., Lb., 75c. Postage, extra.
379. SUPERB SPENCER MIXTURE—This group includes the larges and most beautifully formed sweet peas. The Spencers have very large waved flowers which are produced abundantly on long, strong stems, makin the blossoms most desirable for cutting.

The plants of Spencer varieties when grown outdoors are usually in bloor much longer than other sweet peas, as most of the blossoms fall off after maturity without setting pods.

Per oz., 15c. 1/4 Lb., 50c. 1 Lb., \$1.50. Postage, extra.



Gladiolus are the most attractive and useful for cut flowers of all the summer flowag bulbs.

Plantings each ten days from April to mid-June will provide flowers from August October.
Price, 6c. each, 60c. dozen, \$3.50 per 100. .Postage 10c. dozen extra.

GLADIOLUS

AMERICA—This is one of the finest Gladiolus ever produced, and ranks as the best sort for cutting, as well as all-around purposes The coloris a very beautiful soft pink, the coloring and texture resembling those of the Orchid.

AUGUSTA—A lovely and useful variety, pure white with blue authors

BLUE JAY-Porcelain blue.

GRETCHEN ZANG-Soft shade of pink, blending into scarlet on lower petals. Large, heavy blooms.

HALLEY-Predominating color, delicate salmon pink, with slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center, the whole producing a wonderful effect.

LE MARCHAL POCH—Rose-pink, resembling America in color but deeper. Blooms same time as the Halley.

LILY WHITE-Pure white and very early forcer.

MAIDEN'S BLUSH—Beautifully formed flowers on long stems; early flowering; apricot pink.

MRS. FRANCIS KING-Long. bearing flowers of ve effective for cutting. vermillion-scarlet color.

MSS. DR. NORTON—Pure, soft white, with tips of petals suffused La France Pink, Wonderful variety.

PANAMA—An improved American, largest and most notable spike of bloom among all pink

PEACE—Immense, pure white flowers, with touch of carmine in lower petals. These are borne on tall, graceful spikes; a beautiful variety.

ROSE, 1910—Early: Rose color, with white vein through centre of petal

SHAYLOR-Pure deep pink. Large flowers on

SCHWABEN—Clear canary yellow, shading to soft sulphur. Largest flowering stalk and leaves of all Planted 7 or 8 inches apart in rich soil produces wonderful blooms.

WILBRINK-A vorite forcing variety for cutting. Earlycutting. flowering, color deli-cate pink.

'he Caladium Esculentum is one of the handsomest of the es amental-leaved plants. It will grow in any good garden soil. nt where it will obtain plenty of water and an abundance rich compost.

MALL SIZE (5 to 7 inches)-Each, 5c.; doz. 50c.

TRST SIZE BULBS (7 and 9 inches)-Each, 7c.; doz., 75c.

ARGE BULBS (9 and 11 inches)—Each, 10c.; doz., \$1.00.

Each, 15c.; li., \$1.75.

by mail, add single bulbs, 5c. Dozen, 15c.

TUBEROSES



TUBEROSES

One of the most fragrant and popular of the summer flowering bulbs. May be started early in hot-beds or pots, or planted in open grounud after the first of

EXCELSIOR PEARL-Double white; dwarf. Each 5c.; dozen, 50c.; per 100, \$4.00.

If by mail, add dozen, 10c.



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE



DIRECTIONS FOR CULTURE

Strawberries require well-tilled soil; the plants should be set 15 inches apart, in rows 2 feet wide. Firm the plants well in the soil and keep thoroughly cultivated.

In early winter when the ground is frozen, cover the whole with long straw, which should be removed from the plant in the spring, but allowed to remain on the ground as a mulch, to keep the berries clean next summer. When strawberries are moved in the fall, they should be left until October or the first of November.

BIG JOE—This variety was introduced about twenty years ago, and proven a wonderful discovery. It is a mid-season to late variety, equally in size, firmness and yield as the Chesapeake, and superior in flavor and color. Succeeds on a great variety of soils.

CHESAPEAKE-Late Large, firm and productive. One of the fanciest varieties grown.

GANDY-Late. Large and firm.

KLONDYKE-Medium Early. Very productive, berries large and firm.

LUPTON—Large, fine, medium early. A beautiful berry, solid and delicious.

PREMIER—One of the very best of extra early varieties; succeeds on almost all soil (if well drained). Produced in vast quantities, berries of good size, attractive appearance and excellent quality. Above varieties \$1.75 per hundred.



WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME-GROWN PLANTS. VARIETIES

Early Jersey Wakefield, Charleston Wakefield, Succession and Early Flat Dutch

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, toug hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without dang of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, they will take root and start to grow as soon as warm weather sets in.

Orders filled from December 1 until May 1. We do not advise planting later than this time.

Prices by Parcel Post, postage paid. In lots of 100, 200, 300-400 plants at 50c. per 100 plants; 500 plants for \$1.6 1,000 or more at \$3.00 per 1,000 plants.

Orders are filled by the 100, not 250 or 350. These prices are for even quantities of one variety to package; if you order 200 of one variety and 300 of another variety you would pay at the 100 rate.

Prices by Express, buyer paying express charges. In lots of 1,000 to 4,000 plants at \$2.00 per 1,000; 5,000 or more at \$1. per 1,000. Plants packed for express shipment, 1,000 or 2,000 plants of a variety to package, they weigh about 25 pounds per thousand plants, packed for shipment.

We also offer YELLOW BERMUDA and PRIZETAKER ONION PLANTS, at same prices as above.

TERMS, CASH WITH ORDER, PLEASE. No Plants Shipped C. O. D.

VEGETABLE ROOTS

ASPARAGUS ROOTS

A saving of one to two years is effected by planting roots. A bed 12x feet, requiring about 100 roots, should give a sufficient supply for an ordi ary family; 8,000 roots will plant an acre. Select good, loamy soil, placed geep, put in good quantity of manure and 100 pounds of kainit to 1,0 square feet of bed. Incorporate thoroughly, make a trench 8 inches deset plants 12 inches apart. In field culture rows are placed 4 feet apart. Palmetto—Per 100, \$1.25. Fer 1,000, \$9.50

Washington—Per 100, \$1.75. . Per 1,000, \$12.00. Postage extra.

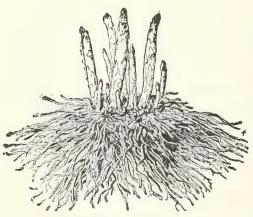
See Pages 3 and 27.

See Pages 3 and 27.

HORSE RADISH ROOTS.

The land should be rich, well manured, plowed deeply, harrowed and from lumps. Plant in a roomy space, by itself. Make rows 15 inch apart, set plants 12 inches from each other. Plant shoots about five inch long, making holes for same with a stick, and set them about two inch under the soil. Have the shoots cut squarely across the bottom, but c slanting at the top, in order that one side may be a little longer that the other. Keep free from weeds for the first and second seasons, after which the Horse Radish will take care of itself. Dozen, 20c. By mail, 21. Per 100, \$1.00. By Mail, \$1.25. Per 1000, \$8.00. By Express, not Prepare

This very desirable vegetable comes early in the spring. The lar stems of the leaves are used for pie-making and stewing. A deep, ri soil is indispensable to secure large, heavy stalks. Plant in rows 4 fe apart, with the plants 3 feet distant. Set so that the crowns are about inch below the surface. Top-dress annually in the fall with stable manuand fork under in the spring. 20c. each. By Mail, 25c. Dozen, \$2.00. I Express, not Prepaid.



Asparagus Roots

From 3 in. pots, and ready about May 1st to 15th, when 1 danger of frost is past. All are, of course, subject to itturn of crop.

where otherwise noted, 20c. each-\$2.00 Prices, except where otherwise is dozen. Add 5c. each, for Postage.

ATISTRIA.-Lemon chrome, spotted red; green foliage; 5

ALLEMANIA.—Mottled yellow; deep orange red blotches on I petals; light green foliage; 5 feet.

APRICOT-Buff yellow base, overspread with salmon pink;

een foliage: 4 feet. CHARLES HENDERSON .- Crimson-scarlet, with rich yel-

w throat; 4 feet.

EUREKA.—The best white variety; free bloomer; strong, gorous plants; green foliage; 4 feet. FLORENCE VAUGHAN .- Yellow, spotted crimson; green

liage; 5 feet. One of the best bedding pink Cannas. Clear HUNGARIA.—One

KING HUMBERT.—The finest type of orange-scarlet flowers, ith bronze foliage. 4-5 ft, price, 25c. each, \$2.50 per doz.

THE PRESIDENT.—Flowers are produced in immense usses, of the most brilliant red, combined with healthy liage. 5 ft. Price, 50c. each, \$3.50 per dozen.

PENNSYLVANIA.—Scarlet, with green foliage; flowers ightly tinged with yellow in throat; 5 feet.

RICHARD WALLACE,-Large canary yellow, green foliage.

RUBIN.—Bright scarlet flowers, dark foliage. 4 ft. SHENANDOAH.—Small salmon-pink flowers; 4 feet. UNCLE SAM—Clear, deep orange flowers, borne in large usters, handsome, luxuriant, rich green foliage. Six feet. VENUS .- Gay, rosy-pink, with mottled border of creamy



FOLIAGE CANNAS

with bronze leaf, but do not bloom. Dormant roots at 6c. each; 60c. per dozen. By post, 10c. per dozen extra.

MIXED CANNA ROOTS IN SPLENDID VARIETY

OUR SELECTION.

gg. Each; per Dozen, 60c.; per 100, \$5.00. By Express, Not Prepaid. By Parcel Post, add 10c. per Dozen, Extra-

FROM 2 INCH POTS

cice, 15c. each; \$1.50 per dozen. By express, not prepaid.

3 Cents Each For Postage.

IVY-LEAVED VARIETIES

MALLIANCE-Delicate lilac white, upper petals blotched ight crimson rose, semi-double flowers,

CÆSAR PRANK-Soft rich crimson, shading to rose at se of petals.

JAMES ATTFIELD-Extra large double flowers, of pretty nt of soft pink

JAMES T. HAMILTON-Intense carmine-crimson.

MRS. BANKS-Blush white, upper petals feathered reddish Neyron. Light green foliage

PIERRE CROZY-Semi-double bright scarlet flowers.

TANDARD DOUBLE VARIETIES

M. A. ROSEMEUR—Deep rose-pink,
MARQUISE DE CASTELLANE—Soft red crimson.
MISS P. PERKINS—Charming shade of deep rose.
MISS KENDAL—Dark carmine red.
MME. RECAMIER—Pure white.
MARYLAND—Handsomely marked foliage, with a chocote zone. Intense dazzling fiery-red color.
MME. P. SARLOVEZE—Exquisite shade of light rose, ading to white at centre; immense semi-double flowers.
ORNELLA—Deep rich scarlet.
S. A. NUTT—Dark, velvety crimson.
SCARLET BEDDER—A bright scarlet bedding variety; free pomer.

SCENTED-LEAVED VARIETIES

BALM-Upper petals light lilac; lower petals dark.

CAPITATUM-Small leaf, rose-scented.

DALE PARK BEAUTY-Small, fragrant foliage.

FAIR ELLEN-Fragrant and beautiful; large oak-leaved foliage

LADY MARY-Sweet-scented; rose-lake color.

LEMON—Lemon-scented.

NUTMEG-Dwarf; bright green foliage; nutmeg scented. ROSE-Rose-scented

HARDY POMPON CHRYSANTHEMUMS

All from 2-inch pots, for bedding outdoors, for cut flowers, but not the large greenhouse varieties.

They are, however, being cultivated extensively for garden purposes.

Price: 10c. Each; per Dozen, \$1.00; per 100, \$6.00. By Express, Not Prepaid. Add 3c. each for postage.

LARGE-FLOWERING OR ASTER VARIETIES

(These are not for exhibition purposes, but good results can be obtained by slight disbudding, leaving from six to eight flowers on a spray. Should also be protected from frost when desired for cutting).

DIANA-Creamy white, full flowers. A favorite for cutting.

FAIRY QUEEN-Light pink.

FIREBIRD-Good red.

GOLDEN CLIMAX-Yellow, good for cut flowers.

IZOLA-A true shade of amaranth

JULIA LAGRAVERE-Deep red.

LILIAN DOTTY-Large-flowering pink. Best of the Pompon family.

RED DOTTY-Bright red, oone of the finest.

VOLUNTEER—(Anemone) Golden yellow. Single.

QUEENOLA-Yellow.

UVALDA-White. Good for cutting.

WESTERN BEAUTY-Rose pink, long stem.

WHITE DOTTY—Pure white, similar to Lilian Dotty.

YELLOW DIANA-Pure golden Yellow. Splendid for cutting.

SINGLE VARIETIES

GOLDEN ORIOLE-Early, light yellow. MRS. GODFREY-Rose-pink. Late bloomer.

MENSA WHITE-White, for cut flowers.

MENSA YELLOW-Yellow, for cut flowers.

GLORIE DE CHATELAINE—Dwarf, compact grower, Always full of flowers of a lively pure pink color. Po ular for pot and bedding plant. I5c. Each.

GRACILIS PFITZERI TRIUMPH-Pure white, free flowering. 15c. Each.

PRIMA DONNA—Limped-rose, shading to carmine at centre, everblooming. 15c. Each. Postage 3c. extra.

HARDY ENGLISH IVY-15c. each, \$1.50 per dozen GERMAN OR PARLOR IVY, for window boxes-15c. each, \$1.50 per dozen.

LEMON VERBENA-15c. each, \$1.50 per dozen.

Small flowering or Button varieties.

CHRISTMAS GOLD—Very bright yellow; late flowe

15c. Each. \$1.50 per Dozen.

NOCTIFLORA-The standard white Moonvine.

LEARI (Blue Dawn Flower)-Generally known as the Blue Moonflower.

Postage 3 cents each extra.

SCARLET SAGE

SALVIA SPLENDENS-Tall, erect, green foliage. T well-known Salvia.

Add 3c. each for Postage.

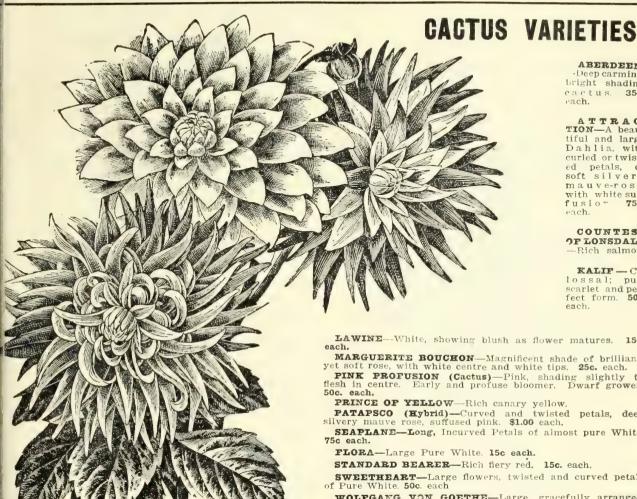
10c. Each. \$1.00 per Dozen.



BRIGHT EYES-Blush white.

DAHLIAS

THE FOLLOWING NAMED VARIETIES SUPPLIED IN POTTED PLANTS CNLY. (Ready About May 1st-15th). Prices, except where otherwise noted, 15c, each; \$1.50 per doz. By Parcel Post, add 3 cents each for Postage.



ABERDEEN -Deep carmine, bright shading cactus. 35c.

ATTRAC-TION—A beautiful and large Dahlia, with curled or twisted petals, of soft silvery mauve-rose, with white suf-fusion 75c. aach

COUNTESS OF LONSDALE -Rich salmon.

KALIF -- Copure lossal; scarlet and perfect form. 50c.

LAWINE -- White, showing blush as flower matures. 15c.

MARGUERITE BOUCHON-Magnificent shade of brilliant.

yet soft rose, with white centre and white tips. 25c. each.

PINK PROFUSION (Cactus)—Pink, shading slightly to
flesh in centre. Early and profuse bloomer. Dwarf grower.

PRINCE OF YELLOW-Rich canary yellow.

PATAPSCO (Hybrid)—Curved and twisted petals, deep silvery mauve rose, suffused pink. \$1.00 each.

SEAPLANE-Long, Incurved Petals of almost pure White.

FLORA-Large Pure White. 15c each.

STANDARD BEARER-Rich flery red. 15c. each.

SWEETHEART-Large flowers, twisted and curved petals

WOLFGANG VON GOETHE-Large, gracefully arranged, perfect flowers of rich apricot, with carmine shading. 25c. WODAN-Large flowers, with semi-incurved petals of delicate salmon-rose color, shading to old gold in centre, 25c ea.

SHOW VARIETIES

. D. LIVONII-Rich Sea Shell Pink. HAS. LANIER-Yellow amber, shaded buff.

THEL MAULE-Pure white, tinged pale lavender in

EAN KERR-Pure White Bloom. Strong grower and free-

vering, 50c each.
NUEEN OF YELLOWS—Rich canary yellow; best for cut-

OUVE MME. MOREAU-Deep rich pink. 25c. each. EBRA-Pearl white, edged deep pink. 25c. each.

CENTURY VARIETIES

BIG CHIEF-Brilliant cherry-red, margined rich velvety maroon.

FRINGED TWENTIETH CENTURY-Similar to twentieth century, having petals deeply cleft. 25c. each.

ROSE PINK CENTURY-Clear rose pink; immense size.

SCARLET CENTURY-Bright scarlet.

SENSATION-Vivid scarlet, heavily tipped white. 250. each.

ces, except where otherwise noted, 15c. each; \$1.50 per doz. By Parcel Post, add 3 cents each for Postage.

By Express, Not Prepaid.

DAHLIAS—Continued

THE FOLLOWING NAMED VARIETIES SUPPLIED IN POTTED PLANTS ONLY.

(Ready About May 1st to 15th).

Prices, except where otherwise noted, 15c. each; \$1.50 per doze by express, not prepaid. By parcel post, add 3c. each for postagents.



Peony-Flowered Varieties

DIMONT VAN BIJSTEIN-Light mauve petals, with bluish tints. Flowers have enormous long stems and grow abundant-35c. each.

MRS. CHAS. L. SEYBOLD-Distinct bright crimson-pink, each petal tipped white.

PRAIRIE FIRE-Rich scarlet.

SEEDLING NUMBER 37—(Peony).—The most delicate and tender combination of a soft, rosy lavendar, suffused and over-laid silvery fawn.

WEBER-Lovely shade of rose-pink, fine form and stem.

QUEEN WILHELMINA-Fine, pure white. 25c each.

15c. each \$1.50 per dozen

ALEWINE-Flesh, edged lavendar pink.

CRIMSON QUEEN-Deep crimson, shaded purple.

INDIAN CHIEF-Crimson.

LITTLE BEAUTY-Delicate shrimp pink.

LITTLE MAY-Bright lemon yellow.

15c. each. \$1.50 per dozen

AMI BARILLET - Scarlet-crimson flowers, dark bronze foliage.

ST. GEORGE-Large, pure yellow. 15c each.

By Parcel Post, add 3c. each for postage.

Decorative Varieties

AUGUSTA NONIN—Large flower of fiery red. 25c. eat

A. C. IDE—Rich velvety maroon, of fine quality, produce the freely on erect stems. Some petals broad and flat. Solution twisted and curled. 25c. each.

BELOIT—Large, bright growing crimson flowers, of go Eld substance, 35c. each.

BALTIMORE—Lemon-yellow, mottled violet rose. 35c. ea.

CHESAPEAKE—A peculiarly striped and tinted varie with very attractive. Canary yellow, striped and streaked throughout with crimson, the color of the reflex. \$1.00 each.

DREAM—Large, perfectly formed flowers. The color is very pleasing shade of burnt rose and amber, with a slig pinkish tinge. **50c. each.**

DELICE—Beautiful glowing rose-pink. 15c. each.

FLAMINGO—Rich and glowing rose-pink, showing son times an open centre. 25c. each.

GOLDEN WEST-Best yellow, fine for cutting. 25c. ea-

JACK ROSE-Rich velvety crimson. 25c. each.

JACK'S DISCOVERY-White, mottled violet rose. 25c. each

JUDGE MAREAN-Salmon-pink, pure gold: orang-red a yellow blended. Large flowers, 50c. each.

HORTULANUS WITTE—Very long stemmed, free flow wal

KING OF AUTUMN—Large perfectly formed flowers beautiful shade of burnt amber, tinged and shaded old ro 50c. each.

LE GRAND MANITOU—White ground color, prett spotted, striped and blotched with deep, reddish violet. 2

MINA BURGLE-Rich, luminous, dark scarlet; free-flow ing. 35c each.

MISS MINNIE McCullough—Soft yellow, overlaid while bronze, 15c. each.

MARYLAND—Large, perfectly formed flowers of exquise shade of silver mauve, suffused delicate flesh pink. \$1.00 ea

OREGON BEAUTY-Intense oriental red, with golden she and garnet suffusion. Large flowers. 25c. each.

PAUL BONYON—Salmon-pink with luminous green she Large flowers, 25c. each.

PERLE DE LYONS-Pure White.

PATRICK O'MARA—Large flowers on stiff stems. Oran buff, slightly tinged with Neyron-rose, long keeping and go autumn variety. 750. each.

SEBASTAPOL-Flowers of rich, bright orange, borne fr ly on long stems. 25c. each.

TAPFY—Light rose pink, slightly streaked fleshy yell Good bloomer and good for cut flowers. 75c. each.

QUEEN MARY—Fine rose pink, free bloomer, good starters. 15c. each.

YELLOW DUKE-Pure canary yellow. 25c. each.

WM. F. GUDE-Pure white, long stems. Fine for cuttig. 25c, each.

I. H. HA

BAWFO.

In separate colors, not named varieties. Large clumps, 12c. each; \$1.25 per dozen IF BY MAIL, ADD 3 CENTS EACH FOR POSTAGE. \$1.25 per dozen. By express, not prepaid.

NURSERY DEPARTMENT

Defore planting fruit trees, the soil (excepting new ground) should be made mellow by repeated plowing. When trees re received the root should be covered with a blanket, sack or straw until they reach their destination; the bundle should hen be opened, and the trees separated from the moss in which they are packed; if the roots have become dry, from too long rosure, straw should be spread on the ground, the trees laid upon it, then covered entirely, roots and tops, with straw, and he whole well watered. In this condition they should remain for forty-eight hours, when they will be found as fresh as when rst found in the nursery. Where only a few trees are to be planted, and the soil has not been sub-soiled, or where trees are o be planted in sod, then the holes ought to be at least four feet wide and eighteen to twenty inches deep, the sub-soil hrown back, and the holes filled up to a proper depth to receive the tree with fine top soil.

SUMMER APPLES.

**ELLOW TRANSPARENT—Early and prolific; clear white skin, changing to yellow. July.

**SENONT—Very early, skin dark rich red; flesh white; juicy, slightly tart.

AUTUMN APPLES.

*RAVENSTEIN—Orange-yellow, overlaid with broken striped of light and dark red. Flesh yellowish. One of the finest fall apples. Fruit produced freely. September to October. *UMMER RAMBO**—One of the best. Smooth skin, streaked is dull yellowish; red, rich, spicy; sub-acid flavor. October to

MOKEHOUSE—Large fruited, striped red on yellow ground; sub-acid; productive and good for culinary purposes. September to October.

WINTER APPLES.

LACK BEN DAVIS—Red all over. Medium to large, Flesh white. Tree strong growing and very productive. Fruit will keep until late in season.

TAYMAN'S WINESAP—Superior to old Winesap; large, bright red, very productive, adapting itself to different soils.

Good marketing variety.

TARK'S DELICIOUS—Brilliant dark red, shading to yellow at blossom end. Flesh white and tender. Large size.

RIMES GOLDEN—Yellow sub-acid; spicy and rich fruit.

RIMES GOLDEN—Yellow sub-acid; spicy and the January to March.

January to March.

ONATHAN—Small, with yellow skin, almost covered red; fine flavor; popular everywhere. November to April.

ORK IMPERIAL—Medium size, skin greenish-yellow, nearly covered with bright red; tender flesh, crisp and juicy; good bearer and keeper. February to April.

OME BEAUTY—Large, yellow, striped and mixed with light red; flesh yellow, breaking coarse-grained, sub-acid; valuable for market on account of its productiveness, size and beauty, as well as for certain bearing. November to January. Can always be depended on for a full crop.

Price, \$1.25 each.

CRAB-APPLES.

TYSLOP—Fruit large for its class; produced in clusters; dark rich red, covered with thick blue bloom; good for culinary purposes and for cider TRANSCENDENT—Golden yellow, with beautiful rich crimson cheek; flesh creamy yellow; crisp, sub-acid, pleasant and agreeable. Tree a rapid grower and productive. September.

PEARS.

ARTLETT (Summer)—Yellow, with soft blush, fine-grained, sweet and juicy; good bearer. July and August.

OONCE (Summer)—Handsome fruit, good bearer, frost-

proof and free from blight.

TEFFER—Standard winter variety. Large and juicy.

ECKEL (Autumn)—Rich quality, hardy and productive. September to October.

Price, \$1.50 each.

PEACHES.

EORGIA BELLE—Fine White Free Stone Peach ripers just ahead of Elberta.

LBERTA—An exceedingly large high-colored Peach. A cross between Crawford's and Chinese Cling. Juicy, well flavored. Said to be finest yellow freestone in existence. Ripens early in August.

H. HALE-The largest yellow peach. Free Stone, ripens after Elberta.

TRAWFORD LATE—A superb fruit of large size; skin yellow, with broad dark red cheek; flesh deep yellow, but red at stone, juicy and melting, with very rich and excellent vinous flavor. One of the best yellow and admirable market fruit; freestone. August 15th.

MOCK—Rather large yellow, with red cheek; flesh yellow, red at stone; very productive; not of high excellence but valuable as a market variety. Most extensively grown in Delaware and Maryland. Middle to last of September.

Price, 50c. each.

CHERRIES (Sweet).

BLACK TARTARIAN-Fruit large size, sweet and productive.

GOV. WOOD-Fruit large, yellow-shaded red; juicy and sweet.

NAPOLEON—One of the best, well-flavored; pale yellow turning amber in the shade; richly dotted with deep red, and with fine marbled dark crimson cheek; flesh firm and juicy.

CHERRIES (Sour).

MORELLO—Above medium size, skin dark red, becoming nearly black; flesh juicy, sub-acid, rich. July.
MONTMORENCY—Large red acid Cherry; very prolific and

RICHMOND—Medium size, red, flesh melting, juicy and at maturity a rich acid flavor. Very productive and fine for cooking. Commences ripening about last of May, and hangs long on tree.

Price. \$1.75 each.

PLUMS

ABUNDANCE—Lemon-yellow ground, nearly overspread with Cherry, with heavy bloom; flesh yellow and very juicy; subacid, with Apricot flavor; highly perfumed, stone small; tree hardy; bears regularly; early heavy bearer. August 1st.

LOMBARD—Medium size, skin delicate violet, dotted thick red; flesh deep yellow, juicy and pleasant. One of the hardiest and most productive. Succeeds well anywhere.

SHROPSHIRE DAMSON—An improvement on the common Damson, being largest of its class; dark purple; highly esteemed for preserving; enormously productive. September Price, \$1.50 each.

QUINCES.

ORANGE (Apple Quince)—Bright pale orange; surface only moderately fuzzy. Fruit variable in size and shape, but in ideal of original form; is distinctly flattened at both ends, like an apple. Ripens after mid-autumn, and keeps until February under good conditions.

CHAMPION—Greenish-yellow; large fruit, flesh tender, delicate flavor; good keeper. Late.

Price, \$1.50 each.

GRAPES.

CONCORD—Vigorous growing vine and enormously productive. Comparatively free from disease; bunches large, compact; berries, large round black, with a blue bloom. Profitable market sort.

MOORES (Sarly)—Bunch medium; berry large black, with light yellow; thin skin, but tough. Is tender and sweet. Ripens with Concord.

NIAGRA—Large bunch, of greenish white berry, turning to blue bloom. Extremely hardy; for market.

Price, 40c. each.

RASPBERRIES.

GREGG-Large firm fruit, sweet and rich; strong grower and ripers late. Black and juicy ripens late. Black and juicy.

KANSAS BLACK CAP—Firm and of fine quality; strong and

hardy. Second-early.

MILLER RED—Bright red, does not fade; fruit ripens early and has very small core. Heavy bearer; best shipper.

Price, 15c. each; \$1.25 per doz.

BLACKBERRIES.

ELDORADO—Berries very large; jet black, sweet melting, no hard core. Splendid keeper and shipper.

LUCRETIA—This is a trailing blackberry or dewberry; a good grower and productive. Fruit large and of good flavor.

Price, 15c. each; \$1.25 per doz.

CURRANTS.

FAY'S PROLIFIC Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good que ty.

Price, 40c back.



ON HORTICULTURE,

AGRICULTURE AND KINDRED SUBJECTS

AGRICULTURE AND FARMING

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GRIFFITH @ TURNER CO.



Inoculate Your Alfalfa, Clovers, CowPeas, SoyBeans, Vetches and her Legume Crops

Small Cost

Large Returns Easy to Use No Labor Expense





Ininoculated ALFALFA Inoculated hotographed on same scale. Plant on not inoculated-Plant on right inculated with Mulford Culture for Alalfa. All other conditions identical. The Contrast Speaks for Itself

MULFORD CULTURES contain pure, tested strains of active, vigorous nitrogen fixing bacteria, for inoculating seeds of legumes or soil. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

INCREASE YOUR CROPS IMPROVE YOUR SOIL

LEGUMES OFFER THE BEST-KNOWN MEANS of maintaining soil fertility and rejuvenating overcropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn and other non-legume crops.

gen to your soil and thus increase your yield of wheat, cotton, corn and other nonlegume crops.

THE U. S. DEPARTMENT OF AGRICULTURE and many State Agricultural
experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria
to induce a prompt "catch" and increase your yield

MULFORD CULTURES ARE SCIENTIFICALLY PREPARED and tested by
experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A.,
with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which
are standard all over the world.

Always specify on your order what crop you want to inoculate, as there is a
different strain of bacteria for each legume.

FOR SMALL SEEDS
10, 2½, 1 and ½ bushel sizes Crimson Clover

Alfalfa Burr Clover Sweet Clover Yellow Clover

Red Clover
Alsike Clover
Berseem Clover
White Clover Sainfoin Mammoth Clover

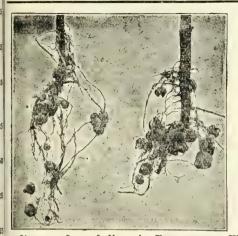
Lespedeza Beggarweed \$8.00

FOR LARGE SEEDS 20, 5, 2 and 1 bushel sizes

Cow Peas Velvet Beans Peanuts Canada Field Peas Garden Peas Sweet Peas Soy Beans Perennial Peas Vetch Garden Beans Lima Beans Lupins

\$8.00 1 bushel size. 1.00 2 bushel size. 2 bushel size. 2 bushel size. Garden size (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas). 1.00 .60

ia. They are labelled e, vigorous growths of living, active nitrogen-fixing bacteria. They are labelled nt of culture material (concentrate) contained in the bottle, with merely approxitive are supplied in sterile bottles, ready for dilution and use. The bottles are Mulford Culture concentrates are pure, nd sold according to the exact amount nate recommendations as to acreage. The contract of the contract ealed to insure purity.



FARMOGERM

High-Bred Nitrogen-Gathering Bacteria

MEANS BETTER CROPS BETTER SOILS

LESS FERTILIZER EXPENSE Farmogerm the "Always Fresh" Inoculant

What Parmogerm Is: A pure culture of nitrogen-fixing bacteria of highest quality. By reason of the patented stopper, which admits air and excludes contaminations, Farmalways fresh—always strong and wirile.

A Sensible Insurance and a profitable Investment.—We believe in incoculation, we favor the pure jelly We recommend that all legume seeds

nedium, and we believe in Farmogerm. We recommend that all legume seeds surchased from us be inoculated before planting.

(A different culture is required for each legume group, so, when ordering, be sure to state what crops you wish to inoculate.)



NEW LOW PRICES-Por small seeds-Clovers, Alfalfa, etc.

	SMALL SEED LEGUME VARIETIES Alfalfa—Clovers—Sweet Clovers	LARGE SEED LEGUME VARIETIES Soybeans—Cowpeas—Vetch—Peas			
	4 bu. size retails at\$.35	½ bu. size retails at\$.35			
3	$\frac{1}{2}$ bu. size retails at	1 bu. size retails at			
7	½ bu. size retails at	5 bu. size retails at			
	Garden size for Garden neas, beans and sweet peas. Spec	ial composite culture, 25c.			



NOGAS A-DUST



"It's the gas that kills them"

CYANOGAS A-DUST is a powdered material that gives off hydrocyanic-acid gas when exposed to the air. This gas is deadly to the rodent and insect pests and will kill them almost immediately.

CYANOGAS A-DUST can be applied either with a DUSTER or with a spoon.

The CYANOGAS method of controlling rodent and insect pests is easy, quick and thorough.

Cyanogas A-Dust to kill Ants, Rats, Mice, Moles, Crayfish, Land Crabs, Land Turtles, Woodchucks or Ground Hogs, Prairie Dogs, Ground Squirrels, Pocket Gophers in Florida, Fleas, Bed Bugs, Clothes Moths, Wax Moths, Bats, Pigeons, Sparrows, Starlings, Yellowjackets, Wasps, Chinch Bugs on Lawns, Grape Leafhopper, Grape Mealy Bugs, Melon Aphis (Box Fumigators).

CYANOGAS A-Dust 100 lb. \$30.00

25 lb. tins \$10.00

5 lb, tins \$3.00

1 lb. tins \$.75

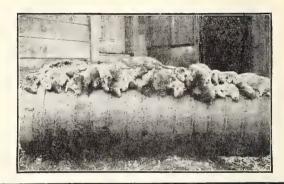


THE WIRE CAGE RAT TRAP

Postage, extra..... 5 cts.

The size of this trap makes it the ideal for house use. It is strong and will stand rough use. The patent door eliminates all danger from the caged rats. Size—15 inches long, 9 inches wide, 7 inches high. No. 17—Coppered wire; nine sheet-steel flanged ribs.







Rax is a bacteriologitax is a bacteriologi-cal preparation, contain-ing Pure Cultures of an active Virus, which has a deadly effect on Mice, Rats and Field Mice, but is harmless to all other

animals.

Thus Rax is not a poison and may be used without the precaution necessary in handling other rat exterminators. While infected they communicate the Virus to other rats and mice coming in contact with them or their haunts. They never die inside the buildings, as they become very feverish and seek the open to get fresh air and water.

Rax has no equal as a destroyer of Rats and Mice.

Directions with every package. Price, 75c.

Directions with every package. Price, 75c. By Parcel Post, 85c.

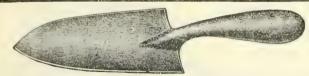
HORTICULTURAL TOOLS AND SUPPLIES



TRANSPLANTING



No.	217—8-inch	blade	 	 	35c.



Galvanized Strong Steel Trowel, one piece, very durable.
Parcel Post weight, 1 pound. Price, 10c.

EUREKA HAND WEEDER



LARGE HAND WEEDER

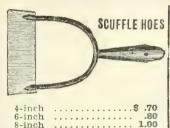


No. 400-4 Prong Hand Weeder. 35c. No. G-Solid Steel Hand Weeder ... 45c. Parcel post weight, 1 pound.

DIBBERS

For transferring plants. By far the best thing for the pur-pose ever introduced. Right-angle shape, steel-polished, wood

handle, 80c.





No. 4774 Grape Pickers. \$.60 Flower Scissors..... 1.75



This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article As a Fruit utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a

-Cocoa Handle

Pruning Knives

BUDDING KNIVES

No. 1508R.....

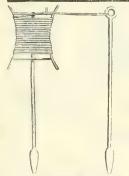


Made of solid steel; see the cutting point. Price...40c. each

Asparagus Buncher

Put your asparagus up in bunches, with this Improved Asparagus Buncher. It is adjustable for all lengths of bundles, correct in design and quick in operation. It makes a well-formed, compact bundle, adding greatly to the looks of the vegetable. Parcel post wt. 5 lbs. Price each.. \$4.50





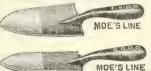
GARDEN REELS

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time.

Large size reel to hold 100 feet of line\$3.15
No. 1 Garden Reel1.00 GARDEN LINE.

Best grade 3/16-in. Cotton Garden Line, in any desired length.

Price, per 100 feet...... \$1.50



MOE'S

MOE'S ALL STEEL GARDEN TROWELS AND WEEDERS

Heavy pressed steel black lamel finish with polished bints. No loose wooden handles.

handles.
No. 80—Garden trowel,
6-in. blade. Each.....
No. 81 — Transplanting
trowel. Each.....
No. 82—Garden Weeder. 20c. 20c. 20c. Each.

OOLS A



By having a machine of your own, you can trim your hedge when it needs it and not wait some one until the hedge has grown strag-gly and disgraced the

entire property for several weeks. Hedge will improve in appearance after it is trimmed with the "Little Wonder," by reason of the straight

cutting, no dips or round corners and many other common faults often noticed in hedge trimmed by hand shears.

It is not near as hard work trimming with the "Little Wonder" as the hand shears, it does not tire the wrists; in fact, it is a pleasure to walk along the hedge and turn the crank and see the hedge fly; it really operates astonishingly

30-inch machine....
 40-inch machine
 27.50

 60-inch machine
 35.00

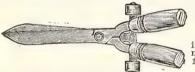
HEDGE SHEARS



No. 100- 8-inch	-	\$2.00
No. 100- 9-inch		2.25
No. 100-10-inch.		2.50
No. 100—12-inch		3.00

(With Notch)

No.	101- 8-inch.	\$2.25
	101- 9-inch	
	101-10-inch	
No.	101—12-inch	3.25



Lawn Shears

No. 1062—2 wheels, 8-inch blade, for cutting on narrow borders, under fences and shrubs. \$4.50

GRASS SHEARS





No. 105 With Wheel Price.

\$4.25



Sheep Shears

	055 3755-		
p	olish		 1.25 1.50

Pruning Shears



			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
No.	4—Flat Spring,	Steel Blade		\$.60
No.	33—Coil Spring,	Mal, Handle, Stee	l Blade	-60
No.	4665—Solid Steel	l, 9-inch		1.00
No.	4666—Solid Steel	l, full polish, 9-inc	h	1.50
No.	544-Ladies', nic	ckel-plated, 6-inch.		1.75
	Parc	eel post weight, 1	pound.	

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

WATERS MPROVED -TREE PRUNER.

Water's Tree Pruners

1.80 2.00 10 feet..... 12 feet...... 14 feet..... Extra Knives. 2.40 2.60

Telegraph Tree Pruners Price, without pole.......\$1.40 Lineman Tree Pruner, No. 2...\$4.00

> SIMPLICITY TRIMMER

Accomplishing in an hour what formerly SIMPLICITY PRUStook four hours with the old style shears. EN & TRIMMER

SIMPLICITIES cut both in opening and closing. Think of it! What a time and energy saver this is. SIMPLICITIES seem to almost

doing

less

work.

work with

SIMPLICITIES seem to almost work automatically and you must actually try them to realize how easy they work.

SIMPLICITY TRIMMER for first year growth only, weighs but two pounds.

SIMPLICITY PRUNER AND TRIMMER for pruning back old growth of hedge and shrubbery and trimming new growth as well, weighs but three pounds.

SIMPLICITIES are made of the finest High Grade Carbon Steel and will give you long service and satisfaction.

Trimmer....\$4.00 Pruner & Trimmer....\$6.00



Lopping Shears The Baltimore Draw Cut Shear is

extra strong, and will cut large limbs with the least exertion.

The No. 5406 Shear is light and strong and is very handy for light work. It will not tire you to handle it.

No. 5406—20-inch Hdles. No. 5406—24-inch Hdles. No. 5402—Baltimore Draw Cut, 24-inch handles. No. 5403—Baltimore Draw Cut, 22-inch handles.

PRUNERS



No. 0 Hand Pruning Shear

It has two cutting blades drop forged from tool steel, and
with the patented leverage is the most powerful pruner built.

Besides the double leverage this Pruner has an addition of two separate cutting powers which is provided by the slots in the handles.

PRUNING SAWS

E. C. ATKINS & CO. INDIANAPOUS No. 3 Saws.

No. 1 Saws. 20-inch single....

FLORISTS AND GARDEN SUPPLIES

PLANT SPRINKLERS



This Improved
Putty Bulb is made
from a good grade
of rubber, For
glazing greenhouses, new or old;
will be found very

PIITTY BILL R

Price**\$1.75**

-Standard, 12-ounce



Parcel post weight, 1 pound.

handy

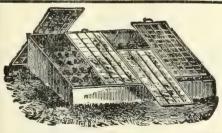


Made of strong Drill, interlined interlined with wool

Price, 40 x 76, Each, \$1.90

Price, 76 x 76, Each, \$3.25

Special Price in Dozen Lots.



UNGLAZED HOT-BED SASH

3 ft. 2 in. x 6 ft.

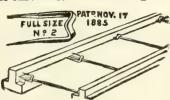
Price, \$2.00 each.

PEERLESS GLAZING POINTS

(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip: they are quickly and easily put in with special pin-cers: no "rights" or "lefts" to better witights. bother with.

Per box of 1,000......75c. Pincers, per pair.....85c. Parcel post weight, 2 pounds



ASPARAGUS TAPE

Spools of about 1,000 yards, \$2.50 each. Postage extra. Parcel Post Weight, 2 lbs.

RAFFIA

GRANULATED PEAT MOSS

Used extensively by florists and growers of flowers for potted plants, shrubbery and lawns. Per Bale\$3.00

SPHAGNUM MOSS

For packing growing Orchids, Plants, etc. Per bale....\$3.25

GRAFTING WAX

¼-lb.....15c. ½-lb.....25c. 1-lb.....40c.

MASTICA

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

1-Gallon Cans.......\$2.25

FOR GLAZING Ferhouses, Sashes, Skylights, etc.

**Sky og old.

**Grand Joints.

**LASTIC ADMESSIVE EASY TO APPLY

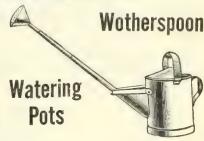
**A ABOUT BY DESIGNATION PLERCE CO

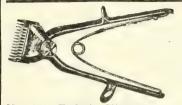
MASTICA GLAZING MACHINE OUR SPECIAL PRICE.

Iron Clad **Watering Pots** 4-qt. \$0.70 6-at.80 8-qt.90 10-qt. 1.05 12-at. 1.30 16-at. 1.45

These pots are made from the best grade of galvanized iron, and are very heavy and strong. The long spout makes them very desirable for greenhouse and flower bed use. Each can is equipped with a fine and coarse nozzle, with copper perforation. tion

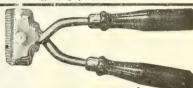
6-quart.....\$4.80 8-quart..... 5.25 10-quart..... 5.60 12-quart..... 6.10





No. 671—Fetlock Clipper... Khedive Clipper... Parcel post weight, 1 pound.

Horse or Dog Clippers





ND GARDEN SUPPLIES--Continued

MOLE TRAP



Considered to be one Considered to be one of the best and cheap-est Mole Traps on the market. Especially val-uable for hot-beds and frames on account of convenient size.

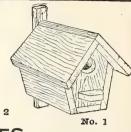
Price\$1.25 Parcel Post weight, pounds.











BIRD HOUSES

These houses are made from ¾ inch White Pine, nicely painted, white enamel bodies with the roofs painted green, or finished in rustic brown stain. Both making a very fine finish, and a handsome house. The No. 1 House is made with slanting sides so arranged that the bottom dovetails in, making it so it can be pulled out as a slide for cleaning the house. It can also be mounted on a pole by nailing the bottom on top of pole and sliding the house over it. The mounting cleat on the back can be used in putting the house up in many places, and if not needed can be taken off.

The No. 2 House has a removable bottom held in place by four screws, and this house can be mounted on a pole by nailing the bottom on top of pole, placing the house in position and replacing the screws, or can be nailed or hung up in numerous ways.

or can be named	or nung up in numerous ways.
No. 1 Bird Hou	se for Wren, Painted
No. 1 Bird Hou	se for Blue Bird, Painted
No. 1 Bird Hou	se for Wren, Rustic Brown
No. 1 Bird Hou:	se for Blue Bird, Rustic Brown 1.2
No. 2 Bird Hou	se for Wren, Painted
No. 2 Bird Hou	se for Blue Bird, Painted
No. 2 Bird Hous	se for Wren, Rustic Brown 1.0
No. 2 Bird Hou	se for Blue Bird, Rustic Brown 1.0

Adjusto

PLANT SUPPORTS

A sturdy, hard-wood stake seven-eights inch square, 3, 4, or 5 feet long with a strong wire

feet, each.....\$.30

long with a strong wire support instantly adjustable to any height.

Saves space because it keeps your plants in the air and sun, and from the ground. Enables you to cultivate close to the plant. "Adjusto" supported tomatoes ripen to perfection. "Adjusto" supported tomatoes ripen to perfection. "Adjusto" supports bring out the full beauty of Dahlias. Chrysanthemums and all the slender, tallgrowing varieties.

Special price in quantities to florists.

Painted TREE LABELS

Painted TREE LABELS

3½-in. notched
3½-in. iron wired. 2.35
3½-in. copper wired. 2.70
the full beauty of Dahlias. Chrysanthemums and all the slender, tallgrowing varieties. Special price in quantities to florists.

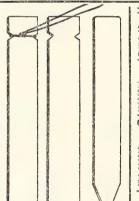
PAINTED TREE LABELS each....

POT LABELS

4 -in, per 1000 \$1.55 4½-in, per 1000 1.70 5 -in, per 1000 1.90 6 -in, per 1000 2.35 12 -in, per 100 1.10

Plain Painted. **\$2.00**

2.25 2.45



HEA	VY OR D	AHLIA S	TAKES
	Ea.	Per Doz.	
3 ft.	12c.		
4 ft.	17c.	1.80	
5 ft.	20c.		16.80
6 ft.	25c.	2.85	20.60
-	TOTEM TOT	A DEED COME	77.27.67

LIGI	AT PLA	NT STA	KES
		Per Doz.	
11/2 ft	3c.	\$.30	\$1.75
2 ft	5c.	,45	3.25
21/2 ft		.65	4.75
3 ft	J.Oc.	.85	6.25
GAT. YEA	MITTIN	STEET, ST	PARTS

CATE A	25202234038	0 11	which dried that with	
	100	Per	Per	Per
	weigh	doz.	100	1000
2 ft.	.10 lbs	.25	\$1.25	\$9.75
3 ft.	.14 lbs	.40	2.00	13.75
3 1/2 ft.	17 lbs	.45	2.25	16.50
4 ft.	.19 lbs	.50	2.50	18.55
5 ft.	.24 lbs	.65	3.00	22.50

CANE STAKES 5 to 7 feet long. per 100..\$.75 Per 1000..\$6.00



ERS

No. 5120—6-inch Cabinet, magnifying tube, black oxidized scale, white figures and graduation, brass screw clasps and guard, back of oak finished natural \$1.25

No. 5981—Hot Bed, 16-in., wood frame, with handle, brass pointed ferrule, brass oxidized scale, white-filled figures and graduations. \$3.50

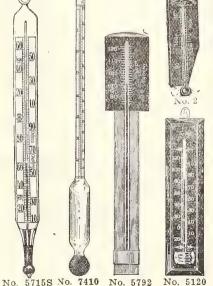
No. 5715S-Floating Glass Dairy 30c.

No. 7236 - Milk Hydrometer (Quevnne)\$1.50

No. 7240-Lime-Sulphur Hydrome

No. 7410—Lime-Sulphur Hydrometer, with test jar.....\$2.25

If thermometers are wanted by parcel post, add 10 cents for postage a packing.

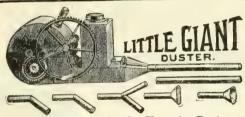








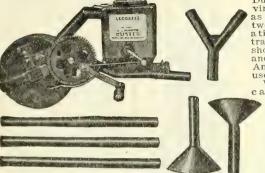
ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN



This Duster is somewhat like the Champion Duster, except it is lighter and has a smaller capacity. A fine machine for use on small places. And will do the work well. It is nicely made and very strong. Illustration shows pipes and nozzle.

OUR SPECIAL PRICE.....

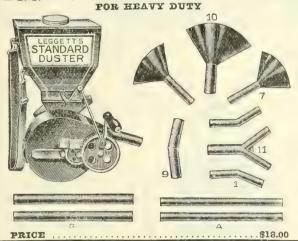
LEGGETT'S CHAMPION DRY POWDER DUSTER



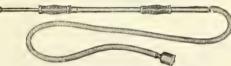
Dusts potato as you walk, two rows at a time. Illustration below shows tubing and nozzles. Anyone can

use it.
Weighs,
cased for shipping, 17 lhg

LEGGETT'S STANDARD DUSTER



AUTO SPRAY



GENERAL PURPOSE HAND PUMP

It is made entirely of brass, doing away with all danger of

The pump is double-acting. This feature makes the spray continuous. Anyone who has used a single acting pump of this kind will immediately recognize the advantage in a pump that works on both the up and down stroke.

The pump itself is so constructed that it can be taken apart.

..\$4.80 OUR SPECIAL PRICE.

THE ACME POWDER

Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray and an elbow for placing the spray on the underside of the leaves. Handles of convenient length and bellows of fine russet leather. A very practical and convenient way of applying Paris Green, Lice Killers, Insect Powder, etc. Parcel post weight, 2 pounds. OUR SPECIAL PRICE, \$1.50.

Midget Tin House Sprayer

Similar to Tin Can Sprayer, only smaller. Holds half pint. In-dispensable in every household. Just the



For spraying insecticides on plants and flowers, disinfectants in sick rooms, kennels, cellars, drains, vaults, poultry

Tank, 4 inches in diameter, 4 inches deep; air chamber, 14½ inches long, 1¾ inches in diameter. Coppered steel plunger rod. Made of heavy tin plate. Each one tested for leaks and sprays. Capacity, one quart. Parcel post weight, 2 pounds. OUR SPECIAL PRICE

COMPRESSED AIR SPRAYER NO.

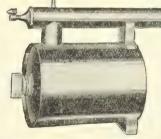
cieut outfit is so designed that the down stroke

generates sufficient pressure to produce a continuous mistlike spray. A decided advantage over intermittent sprayers. Container may be detached for refilling and cleaning by simply unscrewing from the pump cylinder. The ball valve may also be readily removed. Extra nozzle is supplied for spraying at an angle.

For spraying home gardens, in greenhouses, applying floor oil, handling disinfectants and insecticides. Can be used with all spraying solutions. Every household should have one for fly and ant extermination and for mothproofing clothes.

9 90 1.05

Compressed Air Sprayer No. 23



A high-grade heavy-duty spray that only requires an occasional stroke of the pump

to maintain working pressure.
Handles all spraying solutions, disinfectants, deodorizfrom the first transfer and spraying oils and floor oils. Especially designed for disinfectants and spraying cows. Capacity, One-half Gallon, No. 23B, Galvanized \$2.25 No. 23C. Brass \$3.00

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

I EVER BUCKET SPRAY PUMPS

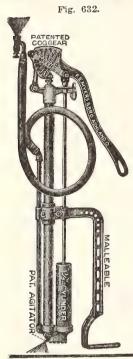


Fig. 632 represents the Myers Lever Bucket Spray Pump, made of brass, and fitted with brass ball valves and patented agitator. The cylinder is 1½ inch in diameter with solid plunger. The air chamber is fifty per cent larger than the ordinary bucket spray pump, has malleable iron foot rest and malleable lever. This pump can be operated with one-half the power of the ordinary bucket spray pump, owing to the advantage of the lever handle. This pump can also be used as a barrel spray pump the head having two holes in for bolting same to the barrel. barrel.

We recommend a Bordeaux Spray Nozzle for whitewashing and paint-ing, if you desire the Vermorel Noz-zle instead of the Bordeaux, please

Fig. 632, No. R 324 Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle,

Our Special Price \$7.00

No. R 324A Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle and eight foot pipe extension.

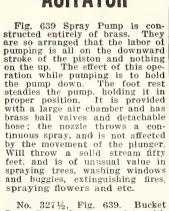
Our Special Price ... \$7.65

No. R 324B Lever Bucket Spray Pump, with agitator complete with hose, Bordeaux coarse spray and solid stream nozzle and eight foot pipe extension with stopcock.

Our Special Price....\$8.65

GIANT Fig. 639.





No. 327½, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle.

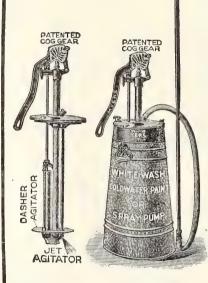
Our Special Price.....\$4.50

No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension.

Our Special Price \$5.15

THE MYERS WHITEWASH, COLD PAINTING MACHINE

GENERAL PURPOSE SPRAYER No. 329



This General Purpose Sprayer with patent Double Agitator is a Sprayer with patent Double Agitator is a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

This is an excellent outfit for whitewashing chicken houses, fences and outbuildings. For spraying trees, shrubbery, plants

ings. For spraying trees, shrubbery, plants and in fact anything where a small sprayer can be used. This outfit will be found just the thing.

the thing.

The pump used in this outfit is the same as the No. 324 Sprayer as shown under Fig. 632, fitted with Bordeaux nozzle, brass ball valves and has jet and dasher agitator.

Complete with Hose, Nozzle, Agitator and Extension Rod.

Our Special Price, \$13.50

THE LEVER KNAPSACK SPRAY



Fig. 547.-No. 330

Galvanized.

Tank holds 5 gallons, is fitted with and strainer, which can be re-moved. This Pump has lever, large air chamber, ball val-ves, solid plunger and agitator. Fitted with 5 feet 1/2-inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a stream, solid OF shut off entirely.

Our Special Price, \$12.50

The Perfect Knapsack Spray Pump

Fig. 547.-No. 331. Copper.

Is the same as No. 330, except tank is constructed entirely of copper. Complete with hose, stop-cock, pipe extension and Bordeaux nozzle.

Our Special Price.....\$18.00

FOR SPRAYING MATERIALS, SEE PAGES 76 TO 79

BRASS BALL VALVES

PATENT AGITATOR

HOSE DETACHED

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

AUTO SPRAY No. 1



Weight loaded, 39 lbs. Weight shipping, 15 lbs. A Self-Operating or Au-

tomatic Sprayer.

The Auto-Spray No. 1 is one of the best on the market. It is very strong and practical When properly charged contains three erly charged contains three gallons of solution and one gallon of compressed air. Ten to twelve strokes of the plunger will compress the air and two pumpings will empty the entire con-

All parts which come in contact with solution are made of brass, and the handle and other parts are made of malleable iron. Length of cylinder, 21

Length of cylinder, 21 inches; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pouncs.

Auto-Spray No. 1C—Galvanized Reservoir, Stop Cock. Our Special Price, \$6.25.

Auto-Spray No. 1D—Galvanized Reservoilr, Auto-Pop. Our Special Price, \$6.75.

Auto-Spray No. 1A— Brass Reservoir, Stop Cock. Our Special Price \$9.25.

AUTO SPRAY No. 40B



Capacity, 8 gallons. Net weight, 33 pounds.

Shipping weight, 45 pounds.

Shipping weight, 45 pounds.

The Auto-Spray No. 40B is especially adapted for spraying whitewash. coldwater paint, as well as for spraying trees, garden vegetables, vines and plants.

Correctly designed on mechanical principles, with every unnecessary part eliminated.

The machine is equipped with 8-foot high-grade spray hose, 8-foot iron extension rod, lever shut-off and latest pattern Vermorel Nozzle.

Auto-Spray No. 40B, with 8-gallon galvanized tank equipped as described

AUTO SPRAY No. 401

The Auto-Spray No. 40D is mounted on a steel truck, with a 20-inch steel wheel with a broad tire, and is especially adapted for garden, lawn and vine-

yard work.

The tank is made of heavy galvanized steel with a broad, flat bottom, which rests firmly on the ground while in operation.

Plunger Brass 1½ inches in diameter, 3 to 4½-inch stroke as desired.

The plunger operating in connection with the air chamber ensures greater reserve capacity than is usually found in this size machine. Plunger style pump. Graphite packing adjustable from the outside by tightening two bolts. Brass ball valves. Suction pipe fitted with brass strainer. Mechanical agitator operated from the handle.

The top casting on tank has broad flange, which prevents the solution from slopping over.

from slopping over.
Equipped with 8 ft. % heavy spray hose, 8 ft. iron extension, lever shut-off and latest pattern Vermorel nozzle.
Repair list, with formula for mixing whitewash and cold-water paint, with

Price, complete with 12-gallon galvanized steel tank, \$26.00

Victory Automatic Compressed Air Sprayer



This sprayer is similar to the No. 1 Auto Sprayer, only the locking device is different.

The locking device is simple, effective and very positive

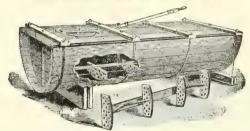
The tank is very highgrade galvanized steel, having a capacity of 3½ gallons, 23 inches high and 7 inches in diameter. Weighs about 9 pounds.

Equipment is complete for spraying, including 2 feet ½-inch 5-ply Spray Hose and Automatic Nozzle, which is very sensitive and effective, making a very fine and wide misty spray.

Will handle all spraying materials that any sprayer of this type will operate with.

Victory Sprayer, with Galvanized Tank and Automatic

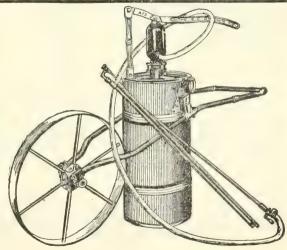
SPRAYING TANK



We are having our Spray Tanks made of 1½-inch clear cypress, which has proven to be the best material for this purpose. The tanks are gripped with steel rods.

Style No. 2—Weight, 175 lbs.; capacity, 150 gallons; dimensions, 4 feet long, 3 feet wide, 2 feet 6 inches high.

Price, complete, without Agitator, but with Bolsters.
OUR SPECIAL PRICE.......\$32.00
Other sizes quoted on application.





GOULD'S "Fruitall" Spray Pump

All Working Parts

The Fruitall Sprayer is first-class in every respect. While the simplicity of its design allows it to be sold at a very reasonsold at a very reasonable price, and although lighter in weight and smaller in capacity than the "Pomona," we offer it as thoroughly serviceable sprayer. The sprayer is held in place in the barrel by

28

-20

the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack.

Plunger, 2 inches diameter; stroke, 4 inches.

Our

List Special Price. Price. Price. Fig. 1188.—Pump only with Agitator and Hose \$12.06 13.45 15.70 20.70 22.35 Barrel
Fig 1188.—Outfit E.—Pump with Agitator, Hose
Bands and Couplings, Two Mistry, Jr. Nozzles,
two 15-foot leads No. 1 Spray Hose.
Fig. 1188.—Outfit F.—Pump with Agitator, Hose
Bands and Couplings, two Mistry, Jr. Nozzles,
two 15-foot leads No. 1 Spray Hose, fitted in 20.50 25,50 28.80 16.15 21.15 Cock, fitted in Barrel.

Fig. 1188.—Outfit L.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr., Nozzles, two 15-ft. leads No. 2 Wire-Wound Spray Hose.

Fig. 1188.—Outfit M.—Pump with Agitator, Hose Bands, and Couplings, two Mistry, Jr., Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, fitted in Barrel.

Fig. 1188.—Outfit N.—Pump with Agitator, Hose Bands, and Couplings, two Mistry, Jr., Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, two 8-foot Iron Extension Rods with Brass Stop-Cocks, fitted in Barrel. 22.80 21.30 44.08 26.30 Brass Stop-Cocks, fitted in Barrel.

No. 1 Spray Hose, in longer lengths, per foot.

No. 2 Spray Hose, in longer lengths, per foot... 29.60

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Fig. 1100. Weight,

GOULD'S POMONA Spray Pump

Plunger—Diameter, 2½ inches; stroke, adjustable to 3, 4, 5 inches; discharge, ½. inch hose.

Outside Packed Plungers. No Leather Packings.

For small orchards of a few acres; a good barrel sprayer that will meet every re-quirement. The factory has devoted much time to the study of practical barrel spray-ers, and it is with the ers, and it is with the utmost confidence we list the "Pomona" as first in our complete line. All of the working parts are solid bronze.

The pump has a steel air chamber, extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle,

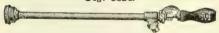
The pump may be placed in any length barrel, plate is adjustable. The agitator is simple, but	as the	barrel
place is adjustante. Zije adjustant in interpre, had		Our
Fig. 1100.—Pump only with Agitator and Hose	Price.	Special Price.
Coupling Fig. 1100.—Outfit A.—Pump with Agitator, Hose	\$35.20	\$22.00
Bands and Couplings and one Mistry, Jr.		
Nozzle for one lead, but without Hose	37.52	23.45
Fig. 1100.—Outfit B.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle		
and 15-foot lead No. 1 Spray Hose	41.12	25.70
Bands and Couplings, one Mistry, Jr. Nozzle,		
one 15-foot lead No. 1 Spray Hose, Fitted in	51.12	30.70
Barrel Fig. 1100.—Outfit D.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr., Nozzle, one 15-ft. lead No. 1 Spray Hose, 8-foot Iron		
Bands and Couplings, one Mistry, Jr., Nozzle, one 15-ft. lead No. 1 Spray Hose. 8-foot Iron		
Extension Rod With Brass Stop-Cock, fitted in		32,35
Barrel Fig. 1100.—Outfit E.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles,	53.76	32.33
Bands and Couplings, Two Mistry, Jr. Nozzles,	48.16	30.10
two 15-foot leads No. 1 Spray Hose	10.10	00.10
Bands and Couplings, 2 Mistry, Jr. Nozzles, 2 15-ft. leads No. 1 Spray Hose, fitted in Barrel	58.16	35.10
Fig. 1100.—Outfit G.—Pump with Agitator, Hose	00.20	
Fig. 1100.—Outfit G.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, two 8-foot		
I from Extension Rods with Brass Stop-Cocks.		38.40
fitted in Barrel. Fig. 1100.—Outfit H.—Pump with Agitator, Hose	63.44	38.40
Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire-Wound Spray Hose		
Fig. 1100.—Outfit J.—Pump with Agitator, Hose		20.10
Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose,		
fitted in Rarrel	51.84	31.15
Bands and Couplings, one Mistry, Jr. Nozzle,		
Fig. 1100.—Outfit K.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose, 8-foot Iron Extension Rod with Brass Stop-		
Cock, fitted in Barrel	54.48	32.80
Fig. 1100.—Outfit L.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles,		
two 15-it. leads No. 2 Wire-Wound Spray Hose.	49.60	31.00
Fig. 1100.—Outfit M.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr., Nozzles, two 15-foot leads No. 2 Wire Wound Spray		
two 15-foot leads No. 2 Wire Wound Spray	FO 00	00.00
Fig. 1100.—Outfit N.—Pump with Agitator, Hose	59.60	36.00
Hose, fitted in Barrel. Fig. 1100.—Outfit N.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose,		
two 6-100t from Extension Rods with Brass		
Stop Cocks, fitted in Barrel	64.88	39.30
No. 2 Spray Rose, in longer lengths, per foot	.34	.30

THE MYERS POWER SPRAY GUN

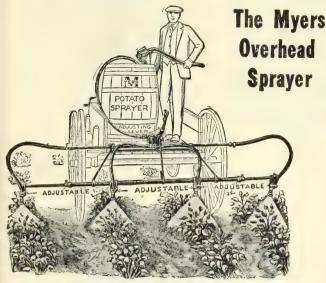
LENGTH OVER ALL. 26 INCHES.

Utilizes the Entire Capacity of any Power Spray Pump and Does Away With All Bamboo Extensions, Nozzles and Pittings.

All Working Parts on the Outside. Not Subject to Corrosion. Fig. 1824.



Fitted for 34-inch Hose Coupling and 14-inch Pipe. OURS PECIAL PRICE, \$6.00. LIST PRICE. \$9.60.



FOR POTATOES, COTTON OR OTHER FIELD CROPS Nozzles Adjustable to Any Required Height and to Any Width Row.

No. 6, Myers Hand Overhead 4 Row Adjustable Sprayer. Complete with all necessary Hose and Nozzles (Pump and Barrel not included).

LIST PRICE \$32 00.

MECHANICAL.

OUR SPECIAL PRICE, \$20,00.

Double-Acting Spray Pump

MOUNTED ON SKIDS



Price....\$54.00

Outfit B—pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; two. 15-ft. leads of ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzles and nozzles and mechanical agitaGould's New Combination Hand

and Power Sprayer

Vertical Outside Packed, Bronze Plungers,
Bronze Glands, Valves, Etc.

High-Grade Sprayer for Orchard Work.

Also for Whitewashing.

Fig. 1640—Has two bronze plungers operating in two vertical cylinders, which are

Fig. 1640—Has two bronze plungers operating in two vertical crilinders, which are packed with a material unaffected by spraying solutions. This construction permits all gritty particles to pass through valves and out; does not grind the cylinder. Ports are large and direct. Valves are bronze, ground to fit their bronze seats, the acceptible through broadball of This is are accessible through handholes. This is the easiest operated Pump of its capacity on the market. Diameter of Cylinder, 2 inches; Suction Hose, ¾ in.; Discharge



inches; Suc Hose, 1/2 in. Special Fig. 1640-Pump only with Suction Strainer and Price. Price. Hose Coupling.

Fig. 1640. Outfit A.—This outfit includes Pump,
Suction Strainer, one Mistry, Jr., Nozzle, Hose
Bands and Couplings for one lead, but with-\$68.80 \$43.00 44.85 Fig. 1640. Outfit B—This outfit includes Pump, Suction Strainer, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but ig. 1640. Outfit C—This outfit is the same as Outfit A, except with one 15-foot lead of No. 1 ½-inch Discharge Hose and 5 feet %-inch Suction Hose... 75.20 47.00 Fig. 1640. Suction Hose.

Fig. 1640. Outfit D—This outfit is the same as Outfit B, except with two 15-foot leads No. 1 ½-inch Discharge Hose and 5 feet ¾-inch Suction Hose. 76.80 48.00 72-1nch Discharge Hose and 5 feet %-inch Suction Hose.

Fig. 1640. Outfit C2—This outfit is the same as Outfit A, except with one 15-foot lead No. 2 Wire-Wound ½-inch Discharge Hose and 5 feet %-inch Suction Hose.

Fig. 1640. Outfit D2—This outfit is the same as Outfit B, except with two 15-foot leads No. 2 Wire-Wound ½-inch Discharge Hose and 5 feet %-inch Suction Hose.

If Pressure Gauge is wanted, add. 83.84 52.40 77.44 48.45 85.28 53.30 2.50

Gould's Dreadnaught Duplex Power with Automatic Governor This Gould's Duplex

This Gould's Duplex Spray Pump is a high grade, medium size, single-acting power spray pump, designed for pressures up to 250 pounds and is fitted with double refitted with double reduction spur gearing. This gearing permits the pump to be direct-connected to an engine shaft without the use of a jack or extra gearing. The gear ratio is 9 to 1. When operated at the speeds recommended speeds recommended
-50 to 67 revolutions
per minute—engines with speeds of 450 to 600 revolutions per minute can be used. At a speed of 50 revolutions per minute it

has a capacity of 5.30 gallons per minute, and at 67 revolutions per minute, 7.00 gallons. This pump is equipped with an automatic governor which operates as follows:

operates as follows:
When the pump is in operation and the spray nozzles open
the flow of liquid has free access to the air-chamber and
thence to the spray nozzles. Any excess pressure causes a
diaphragm to open an overflow outlet which automatically relieves the pressure by allowing the surplus liquid to return the tank.

The over all dimensions are: Width, 18½ inches; length, 24 inches; height, 19½ inches. This makes a very compact outfit.







THE MYERS SELF-OILING POWER SPRAY OUTFIT

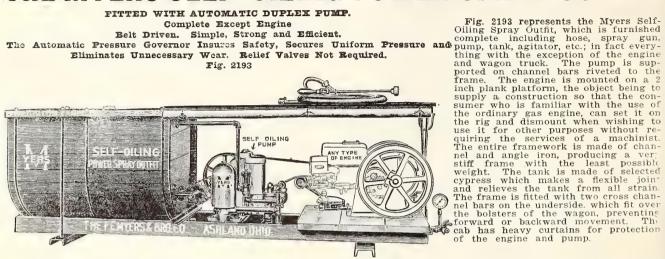


Fig. 2193, No. 28, Myers Self-Oiling Spray Outfit, with 150-gallon Cypress Tank, fitted with Self-Oiling 21/2-in. Duplex Power Spray Pump, equipped as follows: One Myers Spray Gun, 25 ft. 1/2 in. Power Spray Hose, Coupled; Double Cut-Off for discharge lines: Pressure Gauge; Rotary Agitator; Belt Tightener, Suction pipe taken from bottom of tank, with cut-off. As shown in

No. 28. Outfit, with 2 H. P. Fuller and Johnson Engine and Belt

No. 28, Outfit with 2 H. P. Fuller and Johnson Engine and Belt, Mounted on Low Down Farm Truck, with Doubletrees

and Neck Yoke

Hudson Moro Spray Pump





The Modoc is a doub-The Modoc is a double acting high pressure spray pump of large capacity. It will develop 150 pounds pressure at the nozzle. Can be used with any bucket or small tank. Valves and plunger can be removed with a common wrench for cleaning or inspection. All parts except the handle and except the handle and foot-rest are brass so that the working parts can not corrode, rust or get out of order. Price\$4.20

Hudson Ideal Sprayer



The Ideal is a high pressure portable outfit. It is equipped with a regular barrel pump which develops and maintains a working pressure of 200 pounds. Has capacity for two lines of hose if desired. It is a strong, durable machine, very well designed. Because of its portable construction, it is an exceptionally handy outfit for the orchardist or fruitgrower. It is also a great favorite in the stock barns, cattle pens, poultry houses, etc.. It is a practical outfit for whitewash, cold-water paints, insecticides, stock dips and remedies, etc. It can be used in a variety of ways througout the entire year.

Tank. Heavy copper-bearing galvanized, reinforced at top and bottom with channel iron hoops. Easily removed. Capacity 15 gallons.

Frame. Heavy steel tubing.

Wheel. 18 inches diameter, 21/2 inch tire; strong, light and rigid.

Discharge Equipment. 6 feet of % inch spray hose at 4 foot ¼-inch pipe extension—total 10 ft., angle and a 4 foot ¼-inch pipe extension—tota Ideal spray nozzle and leakless shut-off.

Shipping Weight. Crated securely, 75 pounds. No. 32. IDEAL, Galvanized Tank. Price each...\$23.25



HUDSON PERFECTION SPRAYER

For work of any kind requiring a high pressure compressed air sprayer, the Permanning a might pressure compressed air sprayer, the Perfection is supreme. It provides an easy and economical means of whitewashing, cold water painting, disinfecting, etc. It is very practical for use around the orchard, barn, or outhouse; on small truck farms; in onion, melon and small potato fields; for removing old wall paper, spraying stock dip, etc.

Tank. 7½ inches diameter. 20 inches high; capacity approximately 4 gallons. All seams are riveted and soldered.

soldered..

Pump. Seamless brass tubing, 1% inches diameter, 15 inches long.

ameter, 15 inches long.

Nozzle. Is especially
designed for high pressure work. It is automatic in action and operates perfectly
under all pressures. Fitted with standard ¼ inch pipe threads
so an extension rod can be used with it.
No. 110G. PERFECTION, Galvanized Tank. Price each... \$7.00
No. 110B. PERFECTION, Brass Tank. Price each..... 10.00



HUDSON

JUNIOR SPRAYER

HUDSON LEADER SPRAYER

The **LEADER** is of the same high grade construction as the **PERFECTION SPRAYER**, having heavy galvanized tank, hose connection at the right angle to prevent hose from breaking, standard length hose and with automatic nozzle.

The locking device for at-

taching the pump in tank is very positive and strong, quick of action and very handy

Will do any work any other sprayer of this type will do. Capacity of tank about 4 gallons, A real value.

Price\$5.50

HUDSON JUNIOR SPRAYER



Pump. 1% inches diameter, 15 inches long; seamless brass tub-

Nozzle. Our "Perfection" automatic shut-off nozzle, which will handle all solutions perfect-

ly. Operates positively under all pressures. Fitted with ¼-inch pipe thread so that an extension rod can be used with it. No. 140G. JUNIOR, Galvanized Tank. Price each.......55.00

HUDSON MIDGET SPRAYER



A small, well made sprayer for general purposes pecially adapted for use in and about the home. Wil all kinds of liquids satisfactorily. Will handle

HUDSON MISTY SPRAYER



The Hudson Misty is universal favorite for use about the house, yard, back-yard garden, poultry house, etc. Note its sturdy appearance and construction, which combines strength, simplicity and neatness. The point of the pump passes through the tank and is firmly soldered. Spray tube is aligned before soldering so that the air and syphon tubes are always in line. Every Sprayer carefully tested and inspected before packing.

No. 452 Tin. Price

HUDSON CONTINUOUS LACQUER SPRAYER



The Continuous Lacquer Sprayer has an air chamber and valve assembly for stor-ing up air pressure. This head of air pro-duces a continuous spray with no break be-

tween strokes.

The nozzle is adjustable for various densities of spray, enabling the operator to tone down the finish, produce shading effects and retouch delicate jobs.

Discharge tube, valve assembly and nozzle easily removed for cleaning. Pump is equipped with special cup leather, heavy plunger rod and comfortable wood handle. Capacity one quart.

An exclusive feature of this sprayer is the air valve on top of pump, permitting an immediate release of pressure in the tank. Price each\$1.75 Extra Cans, Price each ..75

HUDSON TROMBONE SPRAYER

The Hudson Trombone The Hudson Trombone Sprayer is a high pres-sure spray pump adapt-ed for spraying orchards, vineyards, shrubbery, shade trees, potatoes and field crops; for white-washing, disinfecting, spraying stock dip and fly oils, washing windows

spraying stock dip and fly oils, washing windows and automobiles, fighting fires and numerous other purposes. Equipment. Fitted with 3 feet of % inch spray hose, brass intake pipe and strainer, weighted so as to remain in barrel or pail when being used. Fog nozzle with reversible discs for various jobs. Can be used with extension if desired, for reaching under sides of plants, etc.

NO. 123. TROMEONE Price each. \$4.35

HUDSON MAJOR DUSTER



The Hudson Major Duster handles Paris Green, Arsenate of Lead, Calcium Arsenate and similar poisons very efficiently. It is used in the home garden, on truck plots, in cotton, potato and tobacco fields, in the dairy barn, around the poul-

try houses, etc. **Pump.** Heavy tin, 2¾ inches diameter, 9 inches long. Fitted with special Hudson plunger leather and heavy rod.

Sectional View.



MISTY JR. NOZZLE

THE BEST NOZZLE YET.



The Misty Jr. Nozzle is made from Brass with hardened tool steel disks in discharge cap. The steel disks can be inserted without the least trouble.

This nozzle has been tested under all conditions, and found to give entire satisfaction. It produces a perfect mist and covers a wide area. This nozzle is in our opinion the best that can be had. Brass, with extra steel disk.....\$1.00

Can also supply these nozzles with 45-degree angle. Same prices as above. Extra Steel Disks for Misty, Jr.,

Nozzle. Extra Caps for Misty, Jr., Nozzle...30c.

BORDEAUX NOZZLE



The Bordeaux Nozzle can be readily changed readily changed from a solid stream to a mist-like, fan - shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by erial, it is eas-ly remedied by urning the handle.

Price . . . \$1.25

VERMOREL NOZZLE



This is an improvement on the old style Vermorel Nozzle spray is finer and more evenly distributed. The cap with smaller hole makes finer spray.

Fig. 55—Gould's Vermorel Nozzle, each, One Discharge, \$1.00.

Caps for above, 25c. each.

HOSE COUPLING



BRASS HOSE COUPLINGS, FIG. 1284.

Fig. 1284 is a special Brass Hose Coupling, made with double length nipples, with heavy ribs, of sufficient length to use two hose bands if necessary. Especially adapted for use with Power Spray Pumps. Made in 1/2-in. size. Price, each..................60c.

Spray Pump Accessories

LEVER SHUT-OFF COCK, NO DRIPPING



Fig. 64 — Lever Shut-off Cock, all brass. Made for use with Pipe Extension. Requires quarter turn only to shut off complete. This quick action makes it a practical device for the purpose. Tapped 4-inch pipe size. Price, each. \$1.00

LONG SHANK HOSE COUPLING



Fig. 67—Brass coup-ling, has one end cut 4-inch gas pipe and other end shank to wire into hose. Made from solid brass. Price, each...35c.

45° BEND BRASS



1584-Brass Y with the two branches of the Y bent as shown.

Price.........50e

Fig 1074½ — Brass Y straight.

Price...........50c.

Fig. 49½

BRASS

Brass Y is cut ¾-inch. Female Hose inlet, with lateral discharges to fit ½ and ¾-in. Hose Couplings.

Price......75c.



60° BRASS ELBOW

Fig. 1107—Sixty degree brass elbow, threaded both ends ¼-inch pipe for use with any nozzle.

Price.....30c.

REDUCING COUPLING



Fig. 65—Coupling small end cut ¼-inch pipe thread to fit our spray nozzles, large end cut to fit ¾-inch, ½-inch or ¾-inch male hose coupling coupling.

Price 30c.

PRESSURE GAUGE

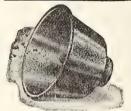


Fig. 301/2.

Brass Pin Silvered Dial, with black figures. Up to 200-pound pressure, with stop-cock.

Price-

2½ in...\$3.25 3 in..... 3.75



For straining spray solutions.

Heavy Galvanized Strainer with Brass Mesh.....\$1.75

Fig. 1346



Valves

FOR POWER SPRAY AND OTHER POWER PUMPS.

Hose **Nipples**

RUBBER **GLOVES**



EXTRA HEAVY, ALL-RUBBER, SEAMLESS GLOVES

Just the thing to handle the poisonous chemicals used in the different spraying mixtures. Can be worn with canvas gloves inside or outside. or outside.

.....\$3.00

EXTENSION SPRAY-RO



BAMBOO

Fig. 1535.

480-8-foot pipe extension, with couplings.....\$.65 Fig. 1535-8-foot pipe extension, with stop-cock.............. 1.65

GARDEN HOSE



Our brands of hose are all made up to our order, experience having taught us that High-Grade Hose is the cheaper. Low-Grade Hose will not give satisfaction.

These brands of hose are guaranteed to be as represented, and have given our trade satisfaction for years.

ORIOLE 5-ply, %-in., in 25 and 50-foot lengths (75 lbs.\$0.14

GRIFFITH & TURNER CO'S EXTRA.—3-ply, 3/4-in., in 25 and 50-foot lengths (80 pounds pressure)......

GRIFFITH.—6-ply, %-in., in 25 and 50-foot lengths (125 pounds pressure)

GRITCO MOULDED GARDEN HOSE



The constructios of this Hose is entirely different from gular Hose. Over a seamless tube of high-grade rubber braided two plies of tightly twisted cotton yarn. Between each ply is placed a distinct layer of high-grade

The Hose is protected by a cover made of rubber specially compounded. It is vulcanized in patented moulds under very

high pressure.

This Hose is manufactured in continuous lengths up to 34-inch, per foot, coupled, 18c.

HOSE FOR SPRAY PUMPS

HOSE COUPLING!

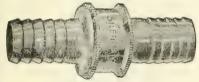


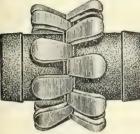
Fig. 504.

These Hose Couplings are made from These Hose Couplings are made from brass, thoroughly machined, and are in perfect shape. The %-inch are made from spun brass, and are very light and neat, assuring a large flow of water, as the opening is not reduced.

Fig. 504-Brass Hose Couplings:

1/2 3/4 1 1 1 1/2 30c. 30c. 35c. \$1.00 \$1.75 15c. 20c. 25c. .75 1.30 Size, inches. Complete Female Half

GIBBS HOSE MENDER



In the Gibbs Hose Mender we believe that we have a device that some unus-ual points of excel-lence. The ual of e Gibbs has cast tube, which sup-

for the steel fingers and which will withstand more abuse and hard knocks than a tube of lighter weight and construction.

The steel fingers of the Gibbs Mender are scientifically designed to grip the hose without injury to the fabric, and when properly applied, are sure to hold the ends of the hose in position.

The convenience of this mender lies in the simple applied for Simple, and the

SHERMAN'S BRASS HOSE CLAMPS

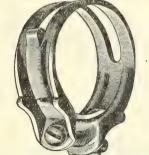
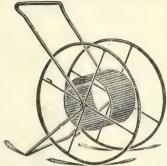


Fig. 1272, Brass Hose Clamps,

each, 1/2 ½-in., 5c.; 5c.; 1-in., 3/4 -i1 15c. -in.,



No. 10 All-Steel Reel.
Diameter of wheels...22 in.
Diameter of drum....9 in.
Width between wheels.10 in.
Length of handle....28 in.
Capacity, 100 ft. %4-in. hose.
Weight about 17 lbs
The large wheels roll easily over rough or soft ground. Nothing to get out of order.
Rigid, Durable, Attractive.
Price \$3.25

COOPER HOSE MENDER



of hose.

HOSE REELS

PARK REEL NO. 21.

A tubular iron reel and frame mounted on steel wheels, tires 1 % inches.

Height of wheels....28 in. Outside width over all.26 in. Shipping weight....45 ib. Capacity, %-in. hose.200 ft. Capacity, 1-in. hose.100 ft.

Price.....\$12.00

The No. 20 Tubular-

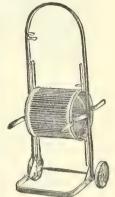
Wheels, 24 inches; weight 20 lbs. Capacity, 150 feet; 34-inch hose.

Price..... \$6.00

No. 200 ALL-STEEL REEL

Diameter of wheels...7 in.
Diameter of reel....20 in.
Diameter of drum....9 in.
Width of drum....10 in.
Height of handle...39 in.
Capacity, 100 ft. ¾-in. hose.
Weight about 25 lbs.

The weight of the hose is on the wheels, not on the hands when being moved about. This reel is light, yet rigid and durable.



"Victor."

"VICTOR" REEL

is constructed with channel steel frame cnannel steel frame; strong, cast-iron wheels; solid steel reel arms and 9-inch drum of heavy corrugated steel.

Weight, 12½ lbs., bundled for shipping. Capacity, 100 ft. of %-inch rubber hose.

hose. \$3.00

Rain King Hose Nozzle



The First Perfect Hose Nozzle A New Patent

The world has never seen the equal of this wonderful hose nozzle. Picture any conceivable adjustment from a long, solid stream to the finest mist spray-and only a quarter turn of the nozzle from one extreme to the other.

This is the only hose nozzle without moving parts to wear, clog or give trouble. The different sprays are obtained by a new and unique principle. Throws more water farther than any other hose nozzle made.

Combines unusual simplicity with greater efficiency. Wear-proof, leakproof and guaranteed forever.

The Rain King Hose Nozzle is packed in individual boxes.

Weight, 10 Ounces.

Price, each\$1.50

HOSE NOZZLE



This nozzle is made from solid brass and is adjustable for all kinds of spraying, from solid stream to the finest spray, or can be

shut off entirely.

34-in, Justrite Nozzle.....

Parcel Post Weight 1 Pound.

THE FOUNTAIN SHOWER

A Hose Nozzle with the "Mist-Like Spray"



This shower Sprinkler is the best thing for attaching to the hose to be used like a watering pot. It gives a fine gentle shower and does not injure the plants as a heavy stream might do.

P. P. Weight 1 lb.

THE RAIN KING



Absolutely nothing to get

Set instantly as a revolving or stationary sprinkler.

Distributes water perfectly at any pressure, either revolving or stationary.

Nozzles adjust immediately to a fine spray or coarse spray, with any pressure.

spray or coarse spray, with any pressure.

Waters a greater area than any other sprinkler, under any water pressure.

Waters a small or large circle, from 8 to 80 feet in diameter. Instantly adapted to surface to be covered.

Waters strips, corners or any odd-shaped places, or sprays trees, shrubs, flower beds, etc., without "slopping over" on walks or adjacent buildings.

Lacks the troubles common to the ordinary sprinkler.

Runs fast or slow, as wanted.

Runs fast or slow, as wanted.

Price...... \$3.50

REVOLVING SPRINKLER



The Sprinklers are compactly and strongly made, with phosphor-bronze bearing. Eureka Sprinkler, 12 in. high....\$2.50

Newport Sprinkler, 24 in. high.... 4.50
Parcel Post Weight, 5 Pounds.

Fountain Ring Sprinkler



MADE OF HEAVY BRASS. Easily moved over the lawn without turning off the water. The mist-like spray is a regitable "thing of beauty."

The Double Rotary Sprinkler

STANDS EVERY TEST



Price\$12.50

You can now plan a beautiful flower garden, plant your vegetables a n d dress up the lawn with an assurance of moisture throughout the entire summer.

All you need is water pressure and the Double Rotary Sprinkler. Many users tell us they save the wages of a man. Think of a machine weighing

only seven pounds, yet capable of covering an area of from 15 to 80 feet in diameter according to pressure. You control distance by turning faucet. Not a spray, but penetrating drops like rain. So simple a nine-year-old child can attach the hose and turn on the water. Nothing to go wrong. Built of best materials and will last for years. The Double Rotary requires no watching, yet your friends and neighbors will gaze with admiration on this faithful servant.

Many times you have admired the greens of a Golf Course and wondered how they were kept so beautiful. Nearly 400 Golf Courses in the United States use the Double Rotary Sprinkler exclusively for their greens.

B. D. Sifter



Made from heavy tin, bottom and side perforated. Can be adjusted to put on a small or large quantity of dust on potatoes or other vines. Parcel post weight, 2 lbs.

Dickey Duster



C. B. G. SPRINKLER



No. 54

Price, 40c.





II S PLANT TUBS

These plant tubs are made from best grade cedar, with strong iron handles and feet. Just the thing for Palms, Rubber Plants, etc. Painted Green with Black Trimmings.

Painted Green.

							_										Outsid	e Top	
N	0														3	D	iameter.	Depth.	Price.
1				 			 							٠.			12	103/4	\$2.50
2		 		 			 										13	1234	3.25
3		 		 					 								141/2	$14\frac{3}{4}$	4.00
																	1612	1534	5.50
4		 				. ,	 		 								1978	16^{5}_{8}	6.00
5		 		 			 										227/8	181/2	3.00







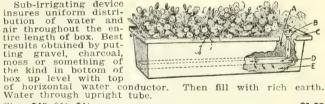
GEDAR

RICHMOND STYLE The Richmond style fills a long-felt want for a cheap type of plant tub and is being used by many large florists in place of earthen pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly beveled, which gives them a neat, trim finish.

		Incide	Inside	Inside	Thickness	
		Top Diam.	Bot. Diam.	Depth	of Stave	Price
Size		Inches.	Inches,	Inches	Inches.	Each.
No.	3	8	6	8	3/8	\$.65
No.	4	9	7	9	3/8	.70
No.	5	10	$7\frac{1}{2}$	9	7/16	.80
No.	6	11	81/2	10	1/2	1.00
No.	7	12	9	11	1/2	1.20
No.	8	13	10	12	1/2	1.50
No.	9	14	11	13	5/8	1.70
No.	10	15	$11\frac{1}{2}$	14	5/8	1.85

PLANT BOXES—Galvanized Green Finish

Sub-irrigating device insures uniform distri-bution of water and air throughout the en-tire length of box. Best



Size 24"x % ½ x 7 ¼ 30"x8½x7¼ 36"x8½x7¼

THE SAVO STEEL All-Year-Round Flower Box



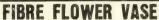
Patented Jan. 23, 1010

Self-Watering and Sub-Irrigating for Windows, Porches, Sun Parlors, etc. Perfect AIR Circulation and Drainage Leakproof and Rustproof Most Efficient, Durable, Artistic

Model A-8 in. high, 91/2 in. wide, 4.00 Model C—8 in. high, 9½ in. wide, 41 in. long.

Model E—8 in. high, 9½ in. wide, 41 in. long.

Model E—8 in. high, 12 in. wide, 12 4.50 5.00 3.00 in. long...... Model F—12 in. high, 12 in. wide, 12 3.50 6.00



Moulded seamless in one piece, without rivets or joints.

Absolutely waterproof.
Cannot rust or corrode, scratch furniture or leave rust marks. Noiseless.

Will harmonize with the most luxuri-

ous surroundings. Height 33.....



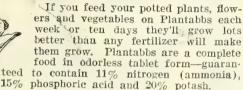
PLANT STIMULANT TABLET

1. Gives an EXACT FEEDING UNIT—No guesswork.
2. Provides for ABSOLUTE CONTROL of feeding, eliminating the danger of overfeeding.
3. No MESSY MIXING.
4. No unpleasant ODOR.
5. Is EASIEST to APPLY.
6. Insures MAXIMUM EFFICIENCY because the plant gets all the food-value—none being lost through scattering where not available to the plant, leaching and run-off of surface soil-water.
7. Makes REPOTTING of house plants UNNECESSARY, as it replaces the food with-



as it replaces the food with-drawn by the growing plant. Because of its ready solu-bility, STIM-U-PLANT can



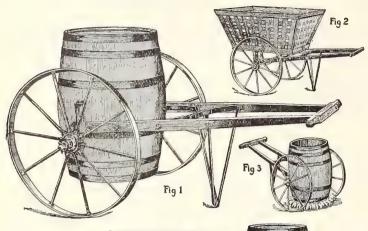


15% phosphoric acid and 20% potash. Include in your next order. Price: 30 tablets 25c.; 65 tablets 50c.; 150 tablets \$1.00: 1000 tablets \$3.50.

FULTON'S ODORLESS PLANT FOOD TABLETS



WATER TRUCKS AND COMBINATIONS WITH STEEL WHEELS





represents our Barrel Cart, to which can be represents our Barrel Cart, to which can be attached any of our Barrel Spray Pumps. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

uit trees, etc. Fig. 2 shows Truck with Leaf Rack Attachment. Fig. 3 shows Truck and Barrel with Sprinkler At-

Fig. 3 shows Truck and Box, with Barrel Detached.
Fig. 4 shows Truck and Box, with Barrel Detached.
Dimensions: Height of Wheels, 2 ft. 9 in.; Distance between Trunnions, 2 ft. 2½ in.; Width Tire,
Steel, 1½ in., 2½ in., 3½ in.; Wood, 1½ in., 2½ in.,
4 inches 4 inches

Box Inside Measure: Width, 22½ in.; Length, 24 in.; Height, 8½ in. Box has tail door.

Prices.

	List	Special
	Price.	Price.
Water Truck, with Regular 11/2-inch		
Tire Steel Wheels	.\$20.70	\$13.75
Water Truck and Barrel		18.75
Water Truck and Box		18.25
Water Truck, Barrel and Box		23.25
Sprinkling Attachment		6.00
Leaf Rack		9.00
Barrel		5.00
Box		4.50
Trunnions, per pair		.90
rumions, per pair	. 1.00	100
Trucks with 21/2-in. Tire Steel Wheels, add to		
regular Tire Truck	1.60	1.00
Trucks with 3½-in. Tire Steel Wheels, add to	. 1.00	2100
regular Tire Truck		2.00
Trucks with regular 1½-in. Tire Wood Wheels		13.75
Trucks with 2½-in. Tire Wood Wheels, add to		10.75
regular Tire Truck		1.00
Trucks with 3½-in. Tire Wood Wheels, add to regu	. 1.60	1.00
lar Tire Truck.		0.00
IRF THE Truck	3.20	2.00

3.20 Extra Truck Wheels.

Special Price. \$3.00 List Price. \$4.80 3.50 3.75 3.75 6.00 6.50

6.50

4.00

Capacity About 160 Gallons.

2.50

WHEELBARROW LEAF-RACK ATTACHMENT



Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity, 10 bushels; made of galvanized wire, bolted to a wooden base. List Price, \$12.00. Our Special Price, \$7.50

Fig. 7.

1½-in. Tire Wood or Steel Wheels, each ... 2½-in. Tire Wood or Steel Wheels, each ... 3½-in. Tire Steel Wheels, each 3½-in. Tire Wood Wheels, each Axles, with Trunnion Holders, each LAWN AND STREET **SPRINKLER**

LIST, \$250.00 RETAIL, \$150.00



Parks, Cemeteries and Coun-Parks, Cemeteries and Country Places having a considerable amount of Roadway. Walks and Lawns will find that the Baltimore Lawn and Street Sprinkler will greatly improve their condition. For this purpose our Sprinkler will meet every requirement. It may also be used for carrying water and other purposes. It is a substantial and well-made Sprinkler in every respect. Driver can operate it from the seat.

Driver can operate it from the seat.



DIMBRSIONS.

Width of Tire	1 1/2	inches.
Height of Wheel	36	•4
Axle	11/4	64
Hub	6	44
BOX-INSIDE M	EAS	URE.
Length		
Width	. 22	44
Depth	. 10	44

8 4.9.54678-¢8.594

BALTIMORE PUSH

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low the price low.

Retail........\$18.00 List.......\$27.0 Extra wheels, each—List, \$5.20. Retail, \$3.25.

Monitor Cart No. 53



The Monitor Construction. The frames of the The Monitor Construction. The frames of the bodies are made of special carbon steel, riveted together with best Norway rivets. It is very light and strong, with durable first quality basswood box inside, and have oil-tempered half eliptical springs. The leg being V-shaped and pivoted at its two extremities to the bodies, forms an effective handle brace.

Lightness. We claim for the MONITOR Hand Cart extreme lightness. These carts weigh about one-third as much as the old-fashioned wooden cart

They are especially adapted to the use of manu-They are especially adapted to the use of manufacturing or mercantile business, and are indispensable to grocers, bakers, laundries, printers, painters, plumbers, paper-hangers, carpenters, tin smiths, gardeners and general family uses.

No. 53—Box 29x44x10 inches. 30-inch wheels. —16-inch spokes. Weight, 110 pounds. OUR SPECIAL PRICE...... \$23.80

Monitor Cart No.

The great convenience of a three-wheel cart will be appreciated when you realize that the weight is all upon the ground and none on the party pushing it. This cart is especially designed for convenience. It is nicely made, the body is finished in green nicely striped and varnished, the gear is finished in red.

It is just the thing f r printers, grocery stores, factories, and in fact its many uses would be hard to enumerate.

The frame of bodies are made of special cortex.

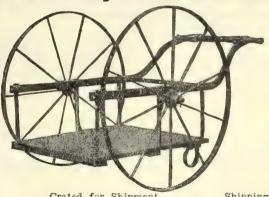
hard to enumerate.

The frame of bodies are made of special carbon steel, riveted together, the bodies are large, giving ample room for a large load. In the construction of MONITOR CARTS we use the very best material, making this the lightest and strongest cart obtainable.

No. 23 MONITOR-Box 23x411/2x10 inches. Ca no. 23 montrok—Box 23x41½x10 inches. Capacity, 600 lbs. 30-inch wheels. 3—16-inch spokes. Weight, 103 pounds.

OUR SPECIAL PRICE\$19.80

Handy Low Platform Cart



Crated for Shipment.

A handy cart for Farm and Dairy use. The low-down plat-form makes loading form makes loading and unloading easy. It will carry five milk cans, water barrel or farm produce in sacks. The parallel steel bands on the sides and wooden back rest make possible a wide. pack rest make possible a wider range of use and permits carrying small packages or merchandise.

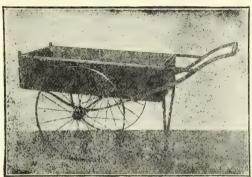
SIZE OF PLATFORM 27 x 30 inches.

Woodwork painted red, wheels and iron work black,

Shipping Weight, 100 lbs.

OUR SPECIAL PRICE.....\$12.00

Merimac Cart No. 132 This cart is built especially for country use, where there are not any pavements, and a three-



pavements, and a three-wheel cart is not neces-sary. In the construc-tion it is just as high-grade as other carts list-ed and will be found a very useful addition on every place. The run-ning gear is made of steel, the wheels are of the bicycle pattern, steel spokes, electrically weld-ed tires and malleable hub, this construction gives the greatest strength.

gives the greatest strength.

The springs are so constructed and arranged as to carry the load in a way that makes the cart easy to push.

varnished. The gear is

Body is finished in green, nicely striped and

Special

Price,

Price,

finished in red.

Box 23 x 41½ x 9½ inches. Capacity, 250 lbs. Weight, 66 lbs. %6-inch wheels ...\$12.20 OUR SPECIAL PRICE.....

BALTIMORE PUSH CARTS, with Springs, \$20.00

The Deshler R. F. D. Mail Box



Will last a lifetime and sells at sight. Made of 20-gauge galvanized iron, painted aluminum, absolutely storm-proof. perfect in operation, positive locking signal in either position-up or down, weather-proof slot in door for depositing the mail without unlocking the box. No rivets or bolts required to set it up.

When the patron nails the box on a post this fastens the box so that it cannot be taken apart.
One-half dozen to a crate. Shipping weight, 72 pounds to dozen.

List Price, \$2.10 each. Our Special Price, \$1.25 each.



LOCKS **ALL THESE LOCKS ARE** TESTED BEFORE LEAVING FACTORY

Dozeil.	isacii.
4031—Pressed steel, brass plated, with 2 keys. \$ 3.84 6160—Green enameled, with 2 keys 5.67	\$.20 .30
4012—Wrought metal, self-locking, with 2 keys	.20
1902—Bronze metal case, with 2 keys 10.56 4067—Seamless steel shell, with 2 keys 7.68 16022—Wrought steel, six levers, with 2 keys. 7.68	.55
1904—Highest grade brass case, with 2 keys. 13.44 16034—Wrought steel, eight levers, with two	.40 .70
double fitted drilled barrel keys 14.40 9902—Mail lock, no chain	.75 .65
9902—Mail lock, with chain	.70

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

82 S GRIFFITH & TURNER CO



SPRAY CALENDAR

WHAT TO SPRAY	FOR WHAT TO SPRAY	WITH WHAT TO SPRAY	First Spraying	Second Spraying	Third Spraying	REMARKS AND CAUTION
Apple	Codling Moth	Kaylox	As soon as blos-	7 to 10 days later	30 days later	Later spraying if
			soms fall			made should be made with diluted
	San Jose Scale	Lime-Sulphur Scalecide	Late in fall, late in winter or early in spring			solutions Use Lime-Sulphur only when trees are dormant
	Scab	Kaylox	Just before blos- soms open	Within a week after blossoms have dropped	Sa me 7 to 10 d ays later	before blossoms open is very essen-
	Woolly Aphis	Kerosene Emulsion	When trees are in full leaf	In fall		tial for scab Don't use strong emulsion when tree emulsion when trees are in full leaf
Asparagus	Asparagus rust	Kaylox	After cutting crop	10 days later	10 days later	Repeat 3 to 4 times. Burn rusted brush in the fall
Bean Cabbage and	Anthracnose	Kaylox	On 2 or 3-inch plants	10 days later	After blossoms	or usir in the last
Cauliflower	Cabbage Worm	Kaylox	With first appearance of worms	Whenever worms are observed	Same	1 oz. to 30 gals. of water
Cherry	Rot	Bordeaux	Before blossoming	After blossoming drop on fruit	Two weeks later on fruit	When fruit is large
	Curculio	Arsenate of lead	Before blossoming	As blossoms dry up	One week later	Avoid strong solu- tions. Do not use other arsenicals than
Cucumber	Cucumber Beetle	Kaylox	Soon as plants appear	Week later	Week after second	arsenate of lead Week after fourth
Currant	San Jose Scale	Lime-Sulphur	As with apple	In spring as with		
	Worm	Kaylox	When worms first appear	apple Repeat in 3 or 4 days		Look for worms on under side of
Gooseberry	Mildew	Kaylox	Before blossoms	After blossoming	Two weeks later	leaves first
Grape	Worm Anthracnose	Kaylox	As on Currants Just before buds	Just before blos-	Just after fruit	
•	Downy and Powdery Mildew and Roi	Kaylox Kaylox	open Just before blossoming	soming Just after fruit has set		Follow by two or three sprayings
Peach		Kaylox	In fall or spring	As buds are open-		
	Borer	Para Dichlor-	May	ing September		
	Rot and Scab	obenzine Atomic sul- phur	As buds are swelling	Just after calyxes drop	2 to 3 weeks later	Destroy all mum- mies
	Bud Moth	Arsenate of Lead	With opening of buds			Use only half usual amount of
	San Jose Scale	Lime-Sulphur				poison
Pear	Scab	Scalecide Kaylox	early spring When leaves are			
	Codling Moth	Kaylox	half grown As with Apple	drop Same as first		See Applo
	San Jose Scale	Lime-Sulphur				
Plum	Rot	Kaylox	spring As buds are swelling	Just after calyx	3 to 4 weeks later as second spray	10 days as third
	Curculio	Kaylox	With starting of buds	Just after calyx	5 days later	Destroy all mum- mies Gather and de-
	San Jose Scale	Lime-Sulphur or scalecide		drops		stroy curculios and
Potato	Early Blight	Kaylox	early spring When plants are inches high	Two weeks later	Two weeks later	stung plums
	Scab	Soak seed in	Corrosive sublimate When beetles or	Solution (2 oz.) As for first	In 16 gallons	90 minutes
	Colorado Beetle	Kaylox	young appear	110 101 1110		Kaylox, 7 lbs. to 50 gals. of water
Quince	Fruit and Leaf Spot San Jose Scale	Kaylox Lime-Sulphur	Just before blos- soms open In late fall or	After blossoms drop	Two weeks later	
Raspberry and Blackberry	1	Kaylox	early spring Before leaves open	Oncanes 6 inch-	Repeat second 1	Keep spray from
Rose		Kaylox	With first appear-	es high 2 or 3 weeks later		leaves on bearing
	Slug Aphis	Lemon Oil Co.'s	ance of fungus	Repeat if neces-	sary	1
		Standard In- secticide		sary		
Strawberry		Kaylox	On new growth after crop	2 or 3 weeks later		<i>3 a</i> •
Tomato	Blight	Kaylox	Soon after fruit begins to set	Three weeks later	Three weeks later	

This insecticide sects in portant and horse sects in portant STANDARA This insecticide destroys in-It will pay you to use this sects in poultry-houses insecticide in greenand homes. houses and on potted plants.

Soluble INSECTICIDE in Water

NO DISAGREEABLE ODOR

THIS INSECTICIDE

is death to pests-is safe to plants-is harmless to user -is low in price-is free from disagreeable odor.

We recommend Lemon Oil Co.'s Standard Insecticide. It is used by the most prominent florists and seedsmen to destroy scale, Mealy Bug, Rust, Aphis, Caterpillar, etc., on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage—advantages over the vile-smelling soaps and powders—especially for indoor use. Being Poisonless, it is not dangerous to use.

This will be found an excellent wash for dogs and other animals; it relieves Mange, destroys Lice and other insects, and gives the coat a beautiful, glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy Lice and other insects in poultry houses.

It will also kill Roaches, Ants and other insects that infest houses.



DIRECTIONS FOR USE

For Mealy Bug.—½ Pint Standard Insecticide to 4 to 6 quarts of luke-warm water or 1 tablespoonful to 2 cups of lukewarm water warm water. When dipping for this insect the plants should remain in the liquid from 10 to 15 seconds and kept in continual motion. When syringing use the finest sprayer and apply the liquid with force.

For Brown and White Scale on Palms, Rubber Plants, etc.—½ pint Standard Insecticide to 4 quarts warm water or 1 tablespoonful to 2 cups warm water, applying with sprayer or sponge.

For Thrip, Red Spider, Caterpillar, Black and Green Fly.—½ pint Standard Insecticide to 2 or 3 gallons of water or 1 tablespoonful to 3 or 4 cups water. Either spray or dip.

For Destroying Mites.—½ pint Standard Insecticide to 4 or 6 quarts of water. Water the plants with liquid 2 or 3 times at intervals of 6 days.

For Destroying Ants.—½ pint Standard Insecticide to 1 gallon water. Well water their nests and runs several times in the course of a few days.

For Destroying Fleas, Insects, Relieving Mange and Skin Diseases on Dors and

For Destroying Fleas, Insects, Relieving Mange and Skin Diseases on Dogs and Other Animals.—1 tablespoonful of Standard Insecticide to 1 cup warm water; rub well into the hide letting lather remain a few minutes.

For Destroying Lice and Other Insects in Poultry Houses.—1 part Standard Insecticide to 10 parts water.

For Destroying Roaches Ants and Other Insects in Houses.—1 part Standard Insecticide to 5 parts water.

½ Pint 1 Pint 1 Quart	.60 1.00	1 Gallon § 5 Gallons	12.00
½ Gallon		Directions on every Can.	

POISON

POISON

NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR

By Analysis It Has Been Found There is No Stronger Weed Killer on the Market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters streets and any other place from which it is desired to remove any and all vegetable growths, thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing.

No more digging and disfiguring of paths and roadways. Saves expense of several men. KILL-WEED not only kills weeds but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. One gallon KILL-WEED will make 30 gallons treating liquid when mixed with water. One man with a sprinkling can in one hour can do as much or more than six men could do in one-half day, and do the work better.

Judgment should be exercised in using KILL-WEED, as it is impossible to give full directions to suit every case. If the weeds are large and strong, the solution should be made stronger than for ordinary grass, and weeds. They should be cut down so that the solution can reach the roots.

1-Quart Can. \$0.50 ½-Gallon Can. 90 1-Gallon Can. 1.50 5-Gallon Can. \$ 7.00 10-Gallon Can. 13.00 1 Barrel, per gallon 1.00

NO CHARGE FOR CONTAINERS

PULL DIRECTIONS WITH EVERY CONTAINER WRITE FOR SPECIAL CIRCULAR



TRADE

MARK Registered in U. S. Patent Office.

INSECTICIDE AND FUNCICIDE KILLS INSECTS AND PREVENTS BLIGHT

ANALYSIS THE MURICIT LIMETO THE POIN COMEST MUCHNINGS OFFIT CERRITS LESSINGS KAYLUX MUST UT. DIRECTIONS PULL KER MILIOST THE HM HESSLI: KALLESPIN H ENSTRUM. KAYLOX INSECTICADE CO. INC. KAYLOX is adapted for spraying for late broods of Codling Moth on Apples, for Potato Beetles, most Caterpillars and many Leaf-eating Insects on fruit and other trees, Tomatoes, Grapes, Currants, Celery, Cabbage, Cauliflower and many other Plants.

A preventive of many Blights and certain Fungous diseases.

Used as a general spray—1 pound to 10 gallons or 5 pounds to 50 gallons of water.

For Potatoes, Bitter Rot and Blotch on Apples. Use 1 pound to 7½ gallons or 6½ or 7

pounds to 50 gallons of water.

Not to be used for late Spring or early Summer application on Apples, and not to be used

on Peaches or Japanese Plums after blooming.

CONTAINS

trated spraying material, as you then do not have to pay freight on a preparation that is

RAYLOX is the outcome of many years of development in the use and manufacture of insecticides and fungicides. It meets the requirements of the largest growers as well as the small home gardener. **RAYLOX is in convenient size packages.

1/2 Pound makes 5 gallons of spray \$.30 10 Pounds make 100 gallons of spray \$4.50 100 Pounds make 1,000 gallons of Pounds make 50 gallons of spray \$.55 25 Pounds make 250 gallons of spray 10.00 100 Spray \$.55 25 Pounds make 250 gallons of spray \$.55 25 Pounds make \$.55 25 Pound WRITE FOR SPECIAL CIRCULAR.

The universally accepted spray material for dormant use is lime sulphur solution. Chemically made time sulphur tion has now almost entirely supplanted the home-made solution because it is better.

This material combines the great fungicidal properties of sulphur with the scale remedy, and is especially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

Lime-Sulphur Solution is used both as an insecticide and a fungicide. As an insecticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris Green should not be used with Lime-Sulphur.

*Drums about 50 gal, per gal. . . \$ 18 thrums charged at \$3.00; 30 gallon or some story of the control of the c

DRY LIME SULFUR

Dry Lime Sulfur is the most valuable new spraying product that has been developed in recent years. For a long time Lime-Sulfur Solution had been the standard dormant and summer spray for apples, pears, plums and many other tree fruits. Orchardists are familiar with the disadvantages connected with the use of Lime-Sulfur Solution. These include heavy handling of barrels, losses due to leakage, crystallization and freezing and freight on water.

This Dry Lime-Sulfur is a true Dry Lime-Sulphur. It is not a substitute for Lime-Sulfur Solution, but is standard 33° Baume Lime-Sulfur Solution in dry powdered form. It dissolves readily in water and will control insects and diseases just as effectively as Lime-Sulfur Solution.

Dry Lime-Sulfur is an effective remedy for San Jose and Oyster-Shell Scale, Peach-Leaf Curl, Peach Blight, Peach Twig Borer, Blister-Mite, Apple and Pear Scab, Brown Rot of Apricot, Powdery Mildew of Apples, Red Spiders, Mites and Thrips of Citrus fruits.

THILD OF CITY OF THE STATE OF	Pkg.	Pkg.
200-lb. steel drums		
100-lb. steel drums		
50-lb. steel drums		30
25-lb. steel drums	. 4.00	

Pleasant to Use.

Reduces Sprayer Troubles.

Prolongs the Life of Your Sprayer.

Spreads into Cracks and Crevices.

Saves Half the Labor of Spraying -One spray tankful of dilute Scalecide goes as far on your trees, as two spray tankfuls of dilute limesulphur.

The Complete Dormant Spray

Let Scalecide be your dormant spray you will know that you have done all that can be done at that particular time by any dormant spray or combination of sprays Fall spraying with Scattering controls pear psylla and peach leaf curl Spring application controls aphis, pear thrips, leaf minor, case bearer and leaf roller Either fall or spring spraying with Scalecide controls scale, bud moth, European red mite, fungus or blight cankers from which are spread fire blight, collar rot and root rot And in addition to controlling these insects and diseases, year after year use of Scalecide invigorates the trees



A 50-gal. barrel of Scalecide sprays the same trees, until they drip, as three and one-half barrels lime-sulphur.

PRICES

A Size for Every Need

One galon makes 16 gallons of spray. 1 qt. can....\$.75 1 gal. can.... 1.75 5 gal. can.... 6.25 10 gal. can.... 10.60 15 gal. drum.. 13.50 30 gal. drum.. 26.00 50 gal. bbl.... 38.00







le curculio, etc.

ARSENATE OF LEAD

Arsenate of Lead is an arsenical poison for use against insects that chew and for such insects as the fruit-flies that lap and suck up sweetened liquids. It has also been shown to have considerable fungicidal value both when used alone or used in combination with lime-sulphur.

Arsenate of Lead is prepared in powdered form. The powdered form can be used in liquid sprays. The powdered form is also used for dusting.

The principal insects for which Arsenate of Lead is used are: Apple-maggot, bud-moth, cankerworm, codling moth, fruit-gypsy moth, tent caterpillar, pear slug, curculio, etc.

Directions: 1 to 11/2 lbs., powder to 50 gallons of water. Powdered Form.

1-lb. pkg., per lb.......25c. 4-lb. pkg., per lb......20c. 48 lbs. pkg., per lb......18c.

ARSENITE OF ZINC

Arsenite of Zinc.—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead. Arsenite of Zinc .combination of arsenic with

The great advantages of Arsenite of Zinc are:

First—It kills the bugs so quickly they do not have a chance to cause serious injury to vines.

Second-It sticks to the vines so that it is not necessary to

respray after every rain. Third-It can be used at sufficient strength to insure results without burning or injuring the vines

Directions: 1 to 11/2 lbs. powder to 50 gallons of water.

First—Apply as soon as eggs begin to hatch. For spraying use at rate of two pounds to the acre—this may require one or two pounds or more of the powder to fifty gallons of water depending upon the quantity of liquid distributed per acre by the spraying outfit. The spray tank should be partly filled with water and the powder sifted in slowly while the agitator is running.

Second-Make second application ten days to two weeks later in order to cover new growth.

Third-Make third application ten days to two weeks after second.

1-lb. pkg., per lb.......25c. 4-lb. pkg., per lb......21c. 48 lbs. pkg., per lb.......19c.



BORDEAUX MIXTURE

BORDEAUX MIXTURE is a combination of copper sulphate and lime. It is a standard fungicide and may be used in combination with insecticides. Its use is indispensable in the control of black rot of grapes and the blight of potatoes. It is also used for apple-scab, bitter-rot, cedar rust, leaf spot and downy mildew. Directions: 6 to 7 pounds to 50 grallons of water

			water	
1-lb.	pkg.,	per	lb	20c.
			lb	
100-lb.	pkg.,	per	lb	15c.

BORDEAUX ARSENATE OF LEAD

USE KAYLOX-SEE PAGE 84



ATOMIC SULPHUR

This is pure sulphur treated by a special process to convert it into a very finely divided state in the form of paste, so it can be readily diluted with water and applied as a spray to coat fruit and foliage with a thin film of sulphur to prevent germination of fungous

It is recommended for the control of scab on peaches, brown rot on peaches, plums and cherries and cedar rust on

Directions: 5 to 7 lbs. to 50 gallous of water.

25-lb. pkg., per lb.....l5c. 100-lb pkg. per lb.....l1c.

Barrels, 300 lbs., per lb.....10c.

DRITOMIC SULPHUR

The extended use of sulphur in the past decade has fully established its fungicidal value and the advantages of its use as a foliage spray to prevent russeting of fruit when the temperature is above 70 degrees Fahrenheit.

There has been a growing demand for fungicides in dry form. To meet this demand, the General Chemical Company has developed a highly concentrated sulphur product; a product that combines the advantages of Atomic Sulphur with the advantages particular to dry powdered materials. This new product will give the fruit the well-known sulphur finish, without interfering with the assimulatory functions of the foliage or the development of the plant treated.

DRITOMIC contains 90% available sulphur and 10% inert matter. The inert matter, an adhesive and a spreader, is a stable and non-injurious combination of ingredients which do not yield readily to decomposition, even when spread in a thin film on fruit and foliage. This eliminates any detrimental effect of changing chemical character.

DRITOMIC permits the use of an arsenical with a small amount of lime added, the same as with other fungicidal sprays. The adhesive character of DRITOMIC prevents loss, thereby adding to the value of the arsenical because of its more permanent adhesion to fruit and foliage.

The spreading character and free flowing nature of DRITOMIC enables the covering of a larger area with less material and permits the application to be made with a lower pressure, thereby eliminating the chances of mechanical injury and saving wear and tear on both pump and engine.

PRICE

4	1b.	Bags,	per	lb.							 							 .20	c.
		Pkgs.																	
96	lb.	Pkgs.	Der	lb.			 -				 							.15	C.



KAYSO

KAYSO is the combined casein spreader and adhesive which makes orchard and garden spraying more economical and more efficient. Kayso is now used by fruit and vegetable growers in all parts of the United States.

KAYSO should be added to all sprays, both summer and winter. Use it with all spray materials and with any combination of materials

Ordinary spray collects in drops on the smooth surfaces of buds, twigs, branches, leaves and fruit. Between the drops of spray are numerous unprotected spaces which permit infections by worms and diseases. This deficiency of sprays is of great importance when one considers that the hole made by the newly hatched Codling Moth worm or the Corculio on entering the fruit is about the size of a pin-head; the San Jose Scale, Psylla, Thrips, Red Spider, etc., and the eggs of all fruit pests are very small, and the spores or "seeds" from which Brown Rot, Scab, Leaf Curl and all other diseases develop are microscopic in size. Kayso enables you to get your trees completely covered by a protective film of poison, with no unprotected spaces.

			PRI	CES			
8	oz.	Package\$.25	10	lb.	Package	2.10
		Package	.40	50	lb.	Package	9.50
2	lb.	Package	.50	100	lb.	Package	18.00

INSECTICIDES CANNOT BE SENT BY PARCEL POST



NICOTINE SULPHATE-40% NICOTINE

This is the insecticide that is so higtly recommended by Experiment Stations. It destroys Aphis (plant lice), Thrips, Leaf-hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without rsyna and shindar soft-bodied steking insects—an without injury to foliage.

May be combined with other sprays. Highly concentrated. Soluble in water—easy to mix—does not clog nozzles.

You cannot go wrong by ordering "Black Leaf 40" for suck-

ing insects. PRICES

1 oz.-\$0.35-makes 6 gallons

spray.

½ lb.—\$1.25—makes 40 to 120 gallons spray.

2 lb.—**\$3.50**—makes 160 to 500 gallons spray. 10 lb.—**\$13.50**—makes 800 10 lb.—**\$13.50**—makes 8 to 2,500 gallons spray.

NIKOTEEN

Is the most powerful known insecticide and will be found more economical and convenient than weak tobacco extracts. Price; Pint cans, \$2.25.

VAPORIZING PANS (for above).....\$.60

NICO-FUME

Nico-Fume is a Tobacco Paper insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. Prices: 24 sheets, \$1.25; 144 sheets, \$5.25, and 288 sheets, \$9.50. Directions on each package.

APHIS PUNK (NIKOTEEN)

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of Nikoteen that kill aphis and thrip very effectively. Per box, \$.80.

TREE TANGLEFOOT



For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle. One lb. will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

1-lb.	can.														. 5	.50
5-1h.																
10-lb.	can					٠				٠	٠		٠			4.25



HAMMOND'S SLUG SHOT

A non-poisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it or fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

1-lb	pkg.								.20c.
5-1h	nke								50c

HAMMOND'S GRAPE DUST

b lbs......**75c.**

FOR GREENHOUSES

This form of cyanide slowly undergoes a change in the presence of air, liberating hydrocyanic acid gas, which kills

One-eighth ounce to 1000 cubic feet is a sufficient dose if the house is fairly tight.

Always start the fumigation about one hour after sundown-never before. Choose a still night.

The house should not be watered for at least twentyfour hours before fumigation.

Some plants will not stand the treatment and should be removed from the house.

Cyanogas G Fumigant-1-pound packages..... \$.75 5-pound packages..... 3.00

It cannot be mailed.

"NICO-FUME" TOBACCO POWDER



i Pound \$1.00

Tobacco Powder impregnated with a high-strength nicotine solution. Effec-tive for fumigating in greenhouses to destroy Aphis, Thrips, etc.

Fill an ordinary 2½-inch flower pot heaping full of 'Nico-Fume' Powder (this being equal to about three heaping tablespoonfuls).

Pour the 'Nico-Fume' Powder out

Pour the 'Ni upon the bare ground or cement walk in a narrow pile about seven about seveninches long.

Tor Moder-

For Moderately Rapid fumigation, light the pile at one end.

For Extra Rapid fumiga-tion, light the pile at both ends. 5 Pounds....\$4.00 F. O. B. Factory



10 Pounds.....\$7.50

PURE WHITE HELLEBORE

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, 15c.; half-pound, 30c.; pound, 50c.

PARIS GREEN

1/2	pound	•	4	۰	٠		•	٠	٠	٠	٠	.10 .20 .32
		_	_			_				-	_	

2-pound package....\$.60 5-pound package.....1.50

TOBACCO STEMS

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphis and other

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light. 50-pound bale, 5c. pound.

TOBACCO DUST

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil, apply liberally to the surface and rake in or strew thickly in the drills before planting. planting. Price: 5 pounds, 30c.; 20 pounds, \$1.00; 100 pounds \$5.00.



TOBACCO SOAP

3-oz. cake makes 11/2 gallons prepared solution, 10c. Mailed, postpaid, for 13c. 8-oz. cake makes 4 gallons prepared solution, 20c. Mailed, postpaid, for 25c.

DUPONT SEMESAN SEED DISINFECTA

Give Your Seed The Advantage Over Unfavorable Weather And Costly Blighting Diseases.



The Dupont Semesan Seed Disinfectants

R

SEMESAN-Du Pont Semesan is the only disinfectant which can be ap-SEMESAN—Du Pont Semesan is the only disinfectant which can be applied in either the liquid or convenient dust forms to prevent or control effectively a most diversified variety of parasitic diseases and fungoid growths borne by seeds, bulbs and other types of seed pieces, plants and grafts, as well as many of those which infest the soils. It is just as effective for flower and nursery seeds or plants as for cleansing the diseases from field, forage, grain and vegetable seeds. Semesan is harmless to seed and plant life but thoroughly sterilizes practically all kinds of seed pieces against the disease germs or fungous spores that adhere to the seed coats, as well as many of those that exist internally. Unhandicapped by diseases, Semesan-treated seeds are thus stimulated to vigorous sprouting during the critical period of their early growth and consequently bear larger and finer crops than can untreated seeds. Semesan completely eradicates and controls the various "damping-off" diseases.

SEMESAN JR .- This disinfectant is a modified form of the parent substance, Semesan, and is exclusively a dust disinfectant for preventing and controlling the ear, root and stalk rots of field and sweet corn. Semesan Jr., is easily applied to seed corn by the common dusting method at the rate of 2 to 3 ounces per bushel of seeds, and by effective control of the common corn diseases it not only increases both the speed and percentage of germination but also stimulates both the root and foliage development of the seedling, thereby producing healthy and sturdy plants that mature earlier and bear heavier yields of unblemished crop. Including Government-conducted and commercial tests throughout the United States, Semesan Jr., invariably produces increased yields from even average quality seeds that range from 20 to over 50% above the untreated check plots.



Semesan Jr., Increases Seed Corn Germination

The Semesan Jr.-treated corn seeds in the right-hand dish germinated 100%, while only 85% of the untreated in the left sprouted and of the latter three-quarters later died from diseases.



SEMESAN BEL.—This disinfectant for both white and sweet potatoes, as well as other similar roots and tubers of flowers and vegetables, is unquestionably the most easily applied and most effective antiseptic ever devised for the purpose, and is fast displacing formaldehyde, mercuric bichloride (corrosive sublimate and sulfur. In addition to controlling the common potato diseass,, such as scab, rhizoctonia, black rot, scurf, black leg, etc., Semesan Bel actually preserves the seed pieces against soil-borne organisms, promotes earlier and more profuse sprouting, and increases yields by 10 to 20% or more.

Semesan	Bel	Doubled	Yield	and	Improved	Quality
		DELLEG				Semesan

	Semesan	4 oz\$.60 1 lb 1.75	\$ 1.75
2	oz\$.50 5 lbs\$ 13.00	5 lbs 8.00	8.00
8	oz 1.60 25 lbs 62.50	25 lbs 37.50	37.50
1	lb 2.75 50 lbs 122.50	50 lbs 72.50	72.50 140.00
	100 lbs \$240.00	100 lbs140.00	140.00

1.75	D	O	In	ni	121	ĺ
8.00			1. July 1.			ı
37.50				ALC: U		ı

ROSE SPECIAL

VOLCK

VOLCK is one of the most powerful insecti-dides known. It is effective on practically all insects on ornamental and flowering plants. Wonderful results have been obtained against red spiders, cyclamen mite, aphis (green fly), scale, mealy bug, thrips, and caterpillars. Many pests that could not be controlled before are now killed with Volck. Even mildew fore are now killed with Volck. Even mildew and rusts are prevented and stopped by Volck. Not only does Volck give effective control of pests, but it also prevents reinfestation for a considerable period. Volck is odorless, colorless and non-poisonous. There is no unsightly residue. Plants are deep, glistening green after using Volck.



Tr.

Semesan Bel

VOLCK DOES NOT BURN

The most tender foliage is safe where Volck is used. Coleus, cyclamen, evergreen, ferns, orchids and many other types of plants can be sprayed with safety. Volck is the most effective remedy known for red spider on indoor vegetables. It is used because it is safe and sure.

Prices, ½ pt., 50c; 1 pt., 75c; 1 qt., \$1.00; 1 gal., \$3.25; 5 gal., \$12.50; 14 gal., \$25.00; 28 gal., \$40.00.

Pomodust is a combination of highly effective fungicides and insecticides in combination for the prevention of many blights, mildews and fungus troubles and to kill external leaf eating insects.

Pomodust is especially adapted to use on roses, and is used and recommended by many prominent growers.

It is also adapted for use on many other

Pomodust is a very fine powder and can be readily dusted on the plants giving them a thin coat of very effective blight, mildew and fungus preventing remedy and at the same time coating the plants with a poison that is deadly to many external leaf-eating

PRICE

1	Pound	Package	\$.5	0
5	Pound	Package		5
10	Pound	Package	2.0	0
25	Pound	Package	4.0	0





BUG DEATH

BUG DEATH kills Potato, Squash and Cucumber Bugs. Currant and Tomato Worms, and all bugs and worms that chew the leaves of plants; nonpoisonous.

Directions for Applying Dry:

For potato and other vines which require a top application, apply dry with Shaker or Shifter at the rate of 15 to 25 pounds per acre to an application, according to size and conditions of the vines.

1-pound	package	\$.20
	package	
	package	
	d package.	
100 pounds	3	8.75

FISH OIL SOAP WITH TOBACCO

Apply for green-fly or aphis, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

1	lb	 5 Ibs\$1.25 10 lbs 2.00 25 lbs 3.75
	100 lbs.	 \$12.00

FLOUR OF SULPHUR

	lb \$0.12			lbs	
10	lbs	lb.	100	lbs	6 lb

COMMERCIAL FLOUR OF SULPHUR

Sold in 150-lb. bags only. Per 100 lbs., \$3.50

Bluestone (or Copper Sulphate)

			lb				1b	
10	lbs.,	per	lb1	.2c. 100	lbs.,	per	lb	9c.

FORMALDEHYDE, 40% SOLUTION

IT IS VALUABLE AS A GERMICIDE, FUNGICIDE AND DISINFECTANT.

1-Pt. Bottles, 50c. 1-Qt. Bottles, 90c. 1-Gal. Jug, \$3.00.



KEY BRAND CUT WORM KILLER

TOR USE AS POISONOUS BAIT AGAINST

CUT WORMS AND SLUGS by placing around plants subject to attack. It has an enticing odor that worms prefer to vegetation.

NOTE: One pound is sufficient for 100 plants in hills or 75 in rows.

5-lb. packages, \$1.50. 1-lb. packages, 35c.



KEY BRAND TREE WOUND PAINT PREVENTS DECAY AFTER PRUNING.

This residium, penetrating antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding.

NOTE: Antiseptic paint for wounds and

pruning purposes.

1-Gal. Cans, \$3.00. 1-Qt. Cans, \$1.25.

PARA-DICHLOROBENZINE

FOR PEACH BORER CONTROL

Remove all grass, weeds and rubbish from around the tree, make a smooth, bare surface about sixteen inches wide around the tree at the soil level.

Remove any gummy exudation adhering to the crown or

Remove any gummy exudation adhering to the crown or collar of the tree.

After the ground is prepared, distribute the crystals of Para-Dichlorobenzine evenly in a narrow circular band around the tree, keeping the inner edge of the band at least two inches away from the bark of the tree.

After the crystals are placed on the soil around the tree cover them with earth, at first lightly so as not to disturb the chemical, and complete by mounding the earth against the trunk of the tree until a cone-shaped mass of dirt four or five inches deep has been made, tamping the dirt down with the back of the shovel.

Use one ounce to a tree 6 years old or older; in case of very large tree, 1½ ounces may be needed to form a satisfactory band. On trees four or five years old, use ½ to ¾ ounces to a tree. We do not recommend using it on younger trees. Do not use on apple trees.

Spring application in May, Fall application in September.

Spring application in May, Fall application in September. 1-lb. package, per lb...\$0.60 5-lb. package, per lb....45 25-lb. package, per lb...35c. 100-lb. package, per lb...30c.

A concentrated liquid sulfur fungicide. Used on both peaches and apples and on all kinds of fruits, vegetables, and flowers. Controls: apple scab; brown rot of peaches, plums and cherries; blight and rot of potatoes, tomatoes and melons; mildew and rust of flowers and shrubs. Convenient, economical, effective. Dilute 1 to 200.

Prices: 1 Pt., \$0.70; 1 Qt., \$1.00; 1 Gal., \$2.75; 5 Gals.,

\$8.75; 10 Gals., \$15.00; 30 Gals., \$39.00; 50 Gals., \$60.00.

DUSTING SULPHUR

FUNGI DUST

This material has won its way to a high position in the spray world, being made from an especially prepared sulphur, all of which will go through a screen as fine as 300 mesh screen. This fineness permits it being carried to every remote part of the tree or plant that is being treated, permitting the material to get its effective work to a degree that is impossible with a material that has not this wonderful construction.



COPPERCARB

A new remedy for bunt or stinking A new remedy for bunt or stinking smut in wheat. Being a powder which can be applied without any further mixing directly to the grain, makes it more economical than the old wet system, and as it can be done at any time, even months before sowing, does away with the evils of any soaking or wet process.

The seed is left in hetter condition, sows as rapidly and the germination is rather helped more than injured as with the soaking treatments.

Raise clean wheat and save the loss in reduced prices when you sell your

Use 2½ to 3 ounces to treat one bushel of wheat. 5-Pound Packages, per pound...\$0.20



A MEAN JOB MADE EASY

The United States Department of Agriculture estimates the loss of farm livestock from contagious disease at over \$200 .-000,000.00 each year. A large part of this stupendous loss could be prevented by proper sanitation in poultry houses, stables and pig pens. In addition to reducing this expense, clean living quarters also help to increase production. Next to a proper supply of feed and water nothing is more important than keeping the buildings clean. Sickness or disease usually start in unclean quarters, and in such quarters lice and mites always are more plentiful.

Carbola is used by thousands of poultry, dairy and breeding farms and by many agricultural colleges and experiment stations to increase the light in their farm buildings. and help put them in that clean, sweet-smelling sanitary condition that is such an aid in avoiding the losses caused by lice, mites and many of the contagious diseases that affect poultry and livestock.

CARBOLA is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is nonpoisonous and non-caustic. It kills mice. mites. fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast and fowl. CARBOLA is two things in one-a paint that disinfects or a disinfectant that paints. It dries a clear, snow white. It saves labor, time and money. It paints and disinfects at one operation in the same time and with the same labor required to paint or disinfect only.



CARBOLA is recommended for use instead of whitewash in every place where whitewash ordinarily is used.

Factories

Warehouses Cellars

Outbuildings Tree Trunks

It is recommended for use instead of whitewash and disin-

fectants in

Stables Poultry Houses

Rabbit Hutches Creameries

Dairy Buildings

It is recommended for use as a disinfectant.

Disinfectant

PRICES

(Paints and disinfects 200 square feet.) 5 pounds (5 gallons).....\$.75 50 pounds (50 gallons).....



FIGHT FIRES AT THEIR START

> SAFEGUARD YOUR PROPERTY WITH PYRENE

The surest way to avoid serious fires is to have Pyrene on hand when the fire comes. It may save your home, your barn, your stock, your crops your machinery and your automobile. Pyrene is a great economy even if you never have to use it because of the reduced rates you can obtain if you have it.

All insurance companies in the United States allow 15 per

All insurance companies in the United States allow 15 per cent. reduction in automobile fire insurance rates if car is equipped with Pyrene Extinguisher.

PRICE

Brass Extinguishers\$12.00

Write for booklet: "THE VITAL FIVE MINUTES."



(IMPROVED)

Kills Bugs and Insects Such as Flies Mosquitoes Roaches Water Bugs Ants Bed Bugs and Fleas Moth Preventive ∼ Disinfectant ~Deodorant A Household Necessity

IMPROVED DETHOL is made from a new and secret formula that cannot be duplicated. Nothing like it before—nothing its equal now. Simple—Safe—Sure. There can be no substitute for it. Accept no imitations.

Spray in the Home and on the Farm

IMPROVED DETHOL, sprayed lightly on tile, porcelain, wash basins and bath tubs, immediately loosens grime and grease, which can then be quickly and easily removed by wiping with rag, leaving a spotless and glistening surface. Also aids in disinfecting and deodorizing, and helps to purify foul-smelling air. Its cleansing spray penetrates where neither brush nor broom can reach.

On the farm, IMPROVED DETHOL, sprayed freely in hen houses, etc., and sprayed lightly and regularly on poultry and stock, keeps them free from many kinds of insects and vermin. Do not spray IMPROVED DETHOL on young animals, cats or vegetation.

1 Gallon 4.00)



SO-BOS-SO

Trade KILFLY Mark Cows will give 15 to 20 Cows will give 15 to 20 per cent more milk if protected from the torture of flies with So-Bos-So-Kil-fly. Kills flies and all infly. Kills flies and all insects; protects horses as well as cows. Perfectly harmless to man and beast. Rapidly applied with sprayer, 30 to 50 cows sprayed in a few minutes.

cows sprayed in a few minutes.

What is more trying to the patience than to milk a cow when she is continually stepping back and forth and lashing her tail under the irritation of a lot of flies? A moment's work with a sprayer and a little So-Bos-So-Kilfly, and all is quiet and serene. From 30 to 50 cows can be sprayed in a few moments.

moments. 1-quart can.....\$.50 Sprayer for applying

So-Eos-So, 50c.

HESS DIP AND DISINFECTANT



REDNOID

TICE DESTROYER

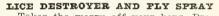
EDW SPRAY

•

Quart..... .60 Gallon..... 1.00 1 Gallon..... 1.75 5 Gallons..... 8.25 Gallon....

GUARANTEED.





Takes the worry off your hens. Procts your cattle and horses.

CRENOID means animal comfort. It effectively keeps them free from the persistent Texas and other flies. I means comfort in milking and increased yield in milk. Eliminates fretting and nervousness.
Use it freely to keep the hen-house

clears of pests.

PRICE: Gallon Cans.....\$1.50



Dr. Hess Fly Chaser

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during summer months will insure good profits. GUARANTEED.

One Gallon\$1.50

GRADE 1 CREOSOTE

Grade One Liquid Creosote Oil is coal-tar creosote refined sufficiently to give the maximum efficiency to the convenient and inexpensive Brush and Open Tank methods of treatment. Briefly, Grade One Liquid Creosote Oil is superior to the commercial coal-tar creosote for use by the small consumer, because

It is liquid. It is free from water.

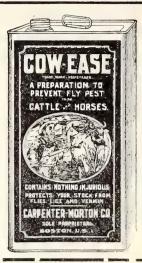
It has low evaporation loss. It has high specific gravity. It has low viscosity, and, being liquid, penetrates readily and deeply into the wood.

It has increased antiseptic and decay-preventing qualities.

It is a clean oil and imparts a pleasing, dark-brown color

the wood. It is uniform, standardized material.

1-Gallon Can......\$1.00 5-Gallon Can.....\$4.50



COW-EASE

RELIEVES CATTLE AND HORSES FROM FLIES

A liquid preparation carefully compounded from effective materials. It is of the right consistency for applying with a sprayer, and it will not gum the hair or blister the skin.

A SURE PREVENTATIVE FOR LICE, TICKS AND VERMIN

A light application of **Cow-Base** will relieve cattle from lice, also prevent tick—the cause of Texas Fever.

Cow-Ease is an excellent article for spraying the interior of hen houses, also roosts and dropping board: it will prevent head lice and fleas and keep the house in a sanitary condition.

PRICES: Qt., 50c.; 1/2 Gal., 85c.; Gal., \$1.50; 5-Gal.-Can, \$7.00

DOMINION FLY SPRAY

is an oil heavily charged with c'temicals, having the peculiar property of giving off for a long time a vapor which drives away all kinds of flies. DOMINION FLY SPRAY contains about 4 per cent. Cresol, and is perfectly safe for use on all animals. If the animal licks it, no harm will result. Cows sprayed with this every morning go through the heat of the day with ease and comfort. Such cows keep up their flesh and their flow of milk; where cows are left to the ravages of flies, they fall off in flesh and the flow of milk is greatly reduced.

1-Gallon Cans

1-Gallon Cans \$1.25 Sprayers used for putting on Fly Spray, 50 cents.





DISINFECTANT DEODORANT ANTISEPTIC 1-Gal. Bottle 1-Quart Bottle.... 1-Gallon Bottle.... 5-Gallon Carboy.....

ARROW CARBOLINEUM

Formerly Avenarius Carbolineum



Made in U. S. A. PRESERVES WOOD

EVERYWHERE against rot and decay, adding at least 100 per cent to the life of fence posts, poles, sills, floors, bridge timbers, porches and to wood embedded in concrete.

FOR STAINING BUNGA-LOWS AND FARM BUILDINGS

Arrow Carbolineum is brushed on the wood and is self-absorbing, therefore need not be rubbed nor worked into the wood like

paint.
COVERING CAPACITY
350 square feet on dressed

lumber. 250 square feet per gallon on rough lumber, 100 square feet per gallon

100 square feet per gallon on shingles, Second coat only requires one-third or one-fourth the quantity for first coat

KILLS MITES IN

POULTRY HOUSES

FRICE
1-Gallon Can...\$1.75
5-Gallon Can...7.00

Pratts, Poultry, Horse and Cattle Remedies



TOR

age

HEALTHY HENS AND LOTS OF EGGS

You may expect vigorous, laying, paying birds when you give them

PRATT'S POULTRY REGULATOR

daily. It contains just those elements needed to keep poultry in perfect health. Both a tonic and digestive. Prevents common poultry ailments. Produces growth, gives increased vitality, and hastens maturity. Makes pullets early and constant layers.

Packages 25c. and 50c., 9 lb. Pkg., \$1.10: 12 1b. Pkg., \$1.40; 12 lb. Pail \$1.65; 25 lb. Pail \$3.00; 25 lb. Bags, \$2.50; 100 lb. Drums, \$10.00.





PRATTS WHITE DIARRHOEA TABLETS

To protect your chicks from white diarrhoea, the most destructive of all chick diseases, it is only necessary to give this remedy in the drinking water from the first drink. This remedy has saved many dollars worth of chicks to poultry raisers. You can depend on it.

25c. and 50c.

EVERY PRATT REMEDY IS GUARANTEED TO SATISFY OR MONEY REFUNDED



PRATTS ROUP REMEDY

Tablets or Powder: \$1.00, 50c., 25c. Contains remedies which are quickly absorbed, purify the blood and reduce fever. Pills are convenient for individual treatment. Many poultrymen use this remedy the year round as an effective preventive.



25c. and 50c.

non-poisonous, non-irritating. May be used wherever a powder is suitable. A splendid deodorizer. Will kill lice on horses, cattle, dogs or cats.



PRATT'S CONDITION TABLETS......25c. & 50c. Pkgs.

PRATT'S GAPE REMEDY......25c. & 50c. Pkgs.

PRATT'S SCALY LEG REMEDY......30c. & 60c. Boxes

PRATT'S SORE HEAD CHICKEN POX REMEDY. 30c. & 60c. Pkgs.

PRATT'S HEAD LICE OINTMENT......30c. Boxes



prudent owners of horses, cows and other live stock realize the value of good tonics, regulators and remedies. For nearly half a cen-tury Pratts has been adding to its successfu

Pratts Animal Regulator
Packages: 25c. and 50c.
12-1b. pails. \$2.15
25-1b. pails. \$3.40

Pratts Conditioner for Horses and Cattle

(Formerly called "Fratts Food for Horses and Cattle.")
7-lb. pkg. \$.60
12-lb. bags 1.00 12-lb. bags. 25-lb. bags. 1.90 ********** 100-lb. drums..... 6.80

PRATTS BAG OINTMENT—50c, boxes.
PRATTS COLIC REMEDY—60c, and \$1.20 PRATTS HEALING OINTMENT-30c. and 60c.

PRATTS HEALING POWDER—30c. boxes.
PRATTS LINAMENT—35c. and 70c. bottles.

Keep your cows thrifty while forcing milk produc-tion, without increased cost for feeding or care by giving

PRATTS COW TONIC

Promotes healthy appetite, good digestion, increased vigor, greater milk production. A wonderful all-around tonie.50c.



As a dip, spray and highly superior germ destroyer and deodorizer for home and farm, use



PRATTS DIP AND DISINFECTANT

Checks contagion, destroys many disease germs, unpleasant odors and helps maintain sanitary conditions for horses, cattle, hogs, sheep and poultry.

PRATTS DIP AND DISINFECTANT 1-qt., 55c.; 2-qt., 90c.; 1-gal., \$1.50.

Pratts,

Poultry

pisinfectant

Poultry Houses

PRATTS POULTRY DISINFECTAN

1/4 Gallon \$.55 Gallon 1.50

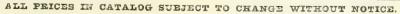
Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it in Roup, Colds and other contagious diseases.



PRATTS Red Mite Special

An effective liquid for extermining the blood-sucking mites. ating the blood-sucking mites.
To be sprayed or painted on roosts, dropping boards, nests, and other places where mites hide. Use these preparations regularly.

PRATTS RED MITE SPECIAL Ct. 50c; 1/2 Gal. 90c; 1 Gal. \$1.50







RAISE EVERY LIVEABLE CHICK

BUTTERMILK

Remember, every one of these ingredients is present in a definite quantity that never varies with the price or market and each is of the very highest quality. We never lower our standard.

PRATTS BUTTERMILK BABY CHICK FOOD is appetizing, harmless, wholesome, non-stimulating, highly digestible, clean, low in moisture, high in quality, always uniform and complete in every element needed for bone, muscle, feathers and health.

MONEY CAN BUY NO BETTER

\$5.25; 50 lbs., \$2.75; 25 lbs., \$1.50; 10 lbs., \$.70; 100 lbs., \$.40.

Packages 25c. and 50c.



PRATTS CHICK SCRATCH FEED

Pronounced by authorities every-where to be the finest, cleanest, pur-est, most economical and highest qual-ity chick scratch ever offered to the

BRAINS CAN THINK OF NO BET-TER, WE CAN MAKE NO BETTER, YOU CAN BUY NO BETTER, CHICKS CAN WANT NO BETTER.

Every ingredient is of the highest quality, carefully cracked and processed and repeatedly cleaned to free it of all dust, hulls, flour or other useless or wasteful parts. Contains no large pieces that might choke the chicks.

Supreme, 100 lbs., \$4.25; Victory, 100 bs., \$3.75; Circle A, 100 lbs., \$3.50.

PRATTS Intermediate Scratch or Developing Feed

Never in your life have you seen such a splendid scratch feed. Clean cut, uniform in size, attractive in variety and appearance, free from every particle of dust, hulls, chaff, weed seeds, or foreign materials, perfectly milled and mixed. Pratts Intermediate Scratch Feed is the envy and despair of other feed makers and the delight of the chickens.

Supreme, 100 lbs., \$4.15; Victory, 100 lbs., \$3.40

THEY CERTAINLY



No wonder! Every grain of it is a real treat for poultry and they work and search easerly in the litter for every hidden food treasure. That's

PRATTS Large Scratch Feed

Gives such splendid results, Made only of the best of plump, sweet, well-seasoned grains—it is the very acme of quality and gives the maximum of

EVERY SINGLE GRAIN OF PRATTS IS REAL FOOD

100 lbs., \$3.25; Circle A, 100 lbs., \$3.10; Utility, 100 Vict∩1 lbs., \$3.00.



PRATTS **Buttermilk Growing Mash**

It produces more pounds of weight on less food. So skillfully and thoroughly processed that all dust, hulls, or other foreign particles are removed. Every ounce is solid food that will build muscle, bone, nerve, feathers and health:

DIGESTIBLE

APPETIZING

ECONOMICAL

100 lbs.....\$4.50



The one feed above all others that will give you more eggs per pound of feed consumed,

PRATTS **Buttermilk Laying Mash**

This remarkable mash is the standard by which all others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratts Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

Supreme, 100 lbs.....\$4.25

Victory, 100 lbs.....\$4.00

We are in position to furnish the following feeds and materials at current market prices:

Pratts Supreme Dairy Rations Middlings Flour or Red Dog Pratts Victory Dairy Rations Middling's Standard Pratts Utility Horse Feed

Pratts Alfalfa Horse Feed Cracked Corn Corn Feed Meal Ground Oats

Pin Head or Steel Cut Oats Bran Standard

Rolled Oats Oat Groats Whole Hulled Oats Linseed Oil Meal Cottonseed Meal Corn Gluton Feed Fish Meal for Poultry Dried Buttermilk



TONO-SHEL a product that contains the following minerals:

Calcium Sulphate Sulphur Trioxide Calcium Carbonate Magnesium

Carbonate Trace of Iron

TONO-SHEL not TONO-SHEL not only supplies the m ost essential minerals needed for egg and bone building, but supplies the necessary grit. Hens confined and allowed no other mineral than Tono-Shel thrive and hold up in egg and hold up in egg production.

Calcium or lime is the mineral needed in the greatest quantity in the feeding of poultry. It is supplied in **Tono-Shel** both in the form of calcium carbonate and calcium sulphate (gypsum), and in gypsum is the most soluble and quickly available form in which calcium can be secured.

100-lb, bags..... Gypsum for Poultry Houses, 50-lb. bag, \$.75; 100-lb. bag, \$1.25

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

DR. HESS POULTRY AND STOCK PREPARATIONS

Dr. Hess Roup Tablets

For Roup, Diphtheria, Chicken Pox and all catarrhal Diseases. It has three distinctive features. It is antiseptic, slightly astringent, non-irritating and healing: 50c. and \$1.00

Dr. Hess Poultry worm Powder

The ingredients in this worm powder are of the highest efficiency and the most dependable that could be compounded. It contains:

Powdered Areca Nut 10% destroys.

It contains:
Powdered Areca Nut 10% destroys most forms of parasites (Worms) infesting the digestive tract. It contains an active principle which produces a laxative action, thereby assists in the expulsion of the worms from the bowels, American Wormseed, Quassia, Powdered Tobacco, Sodium Sulphate and Sodium Hyposulphite. Each assisting the other in producing the results. 1½-1b. Pkgs., 50c.; 4-pound pkgs., \$1.25; 10-1b. pkgs., \$2.75; and 25-1b. pails, \$6.25.

Dr. Hess White Diarrhoea Tablets

No disease in chicks and chickens is as destructive as White No disease in chicks and chickens is as destrictive as white Diarrhoea. For best results you should use Dr. Hess White Diarrhoea Tablets from the first in the drinking water. It is much better to prevent the disease than to have to cure it later. **Package**, 50c.

Instant Louse Killer

Kills Lice on Poultry, Horses, Cattle, Sheep Ticks, Bugs on Cucumber, Squash and Melon Vines;; Cabbage Worms, Slugs on Rose Bushes, etc. Sold in sifting-top cans—look for the word "Instant" before buying. Price: 1 lb. 25c.; 2½ lbs. 50c.

Dr. Hess Dip and Disinfectant

Non-poisonous and non-irritating and guaranteed to be absolutely uniform in strength at all times. One Gallon of **Dip** makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Spray it on cattle and horses. Make a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains. GUARANTEED. 1 Qt., 60c.; ½ Gal. \$1.00; 1 Gal., \$1.75; 5 Gal. Can, \$8.25; 50 Gal., Drum, per gal., \$1.25.





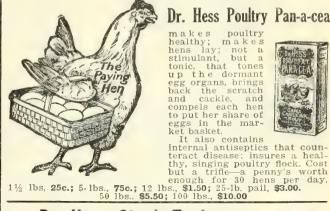
Atdruggists, or by mail postpaid.

Bourbon Remedy Co., Lexington, Ky.

REMEDIES

Burbon Poultry Remedy, Trial Bottle\$.60
Burbon Poultry Remedy, Half Pint Bottle 1.00
Burbon Pouliry Legands, Past Bottle 1.50
Burbon Poultry Remedy, Quart Bottle 2.25
Burbon Poultry Remedy, Half Gallon Size 3.50
Burbon Poultry Remedy, Gallon Size 6.00
Burbon Hog Remedy, Quart Size 2.25
Burbon Hog Remedy, Half Gallon Size 3.50
Burbon Hog Remedy, Gallon Size 6.00
Burbon Egg Producer
Burbon Insecticide
Burbon Stock Tonic, 25-Lb Pail 3.60
Burbon Stock Tonic, Package
Burbon Stock Tonic, Package 30
Burbon Colic-Relief, for Horses 1.20
Kentucky Horseman's Condition Powder60
Kentucky Horseman's Distemper Remedy
Kentucky Horseman's Healing Oil
Tentucky Horseman S Hearing Off Property Commencers of the Commenc

ROUP-OVER



Dr. Hess Poultry Pan-a-cea

makes poultry healthy; makes hens lay; not a stimulant, but a tonic, that tones up the dormant egg organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket.

It also contains makes poultry



Dr. Hess Stock Tonic

Formula Printed on Every Package
Every ingredient indorsed by the U. S. Dispensatory and other high medical authorities. It aids digestion, makes stock healthy, and expels worms. Helps stock convert more ration into milk, flesh, blood and muscle. Every pound backed by the Dr. Hess & Clark unqualified guarantee. Prices: Packages, 3½ lbs., 50c.; 10-lb. pkg., \$1.25; 25-lb. pail, \$3.00; 50-lb drum, \$5.50; 100 lbs., \$10.00.



DA HESS WORM POWDE

Dr. Hess Worm Powder

For Horses, Sheep, Cattle and Hogs. It is highly concentrated, and is an effective vermifuge. Dr. Hess' own prescription that proved effective in his practice. Price, 1½ lbs., 50c.

Guaranteed.

Dr. Hess Healing Powder

The modern Gall Cure Cures Galls. Cuts, Wounds, Ulcers, Grease Heel. Antiseptic and soothing. Heals everything it touches by forming a coating, cleaning and closing up wounds. Comes in sifting-top cans. Price 4-02., 25c.; 10-0z., 50c.

ABSOLUTELY GUARANTEED





Dr. Hess Fly Chaser

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during statemer months will insure good profits. GUAL-ANTEED.

Dr. Hess Heave Powder

dependable preparation for relieving hors-A dependable preparation for relieving horses of heaves, chronic coughs, asthma, bronchitis, etc.; with careful diet, the frequent use of this valuable preparation will afford permanent relief in the majority of cases. Price, 1½-1b. package, 50c.



A reliable preparation for the treatment of Spasmodic and Flatulent Colic, Gripes, Acute or Chronic Indigestion, Impaction of the Stomach, Bowel Inflammation, etc. Price \$1.00. GUARANTEED



Dr. Hess Distemper Remedy A reliable preparation for Distemper, Acute Colds, Fever and Cough. Price, 50c. GUARANTEED.

SODIUM FLUORIDE

SODIUM FLUCKIDE
Sodium Fluoride for lice is the method recommended and endorsed by the United States Department of Agriculture, by Purdue University and most other leading agricultural colleges and experiment stations everywhere.

½-pound box, with sifter top.

1-pound box, with sifter top.

35c.
35c.





BLATCHFORD'S CALF MEAL

DOUBLED FARM **PROFITS**

Maturing or vealing all your calves rapidly on Blatchford's Calf Meal, at a cost of about one-fifth of what you get for your milk, then selling all the milk at a good profit, should appeal to you and to every wide-awake farmer as a good, profitable proposition. These profits both ways, need not be guessed at; they are discernible at a glance. Another source of profit that heretofore has been overlooked by most farmers is the raising of the fall and winter calf on this same milk-substitute. Many farmers and dairymen have taken up winter dairying, reaping the extra big profits on milk and cream during the winter months, but often the calf has been immediately "murdered." Calves raised during the winter give you veal during the term of high prices and are just as easily raised then as during the summer. Fall "freshening" is greatly to be desired. With the help of the silo or an abundance of alfalfa hay the winter feeding keeps up the milk supply until the new grass comes in the spring. The new pastures stimulate the milk-flow and keep it up through the summer. The winter milk prices more than offset the cost. When you stop to consider that this complete milk substitute costs you less than skim milk and is far better for calf-raising—made expressly for the calf—you will get some idea of its high efficiency. It is made from the several kinds of whole grains and seeds, and includes oil, sugar and albuminous compounds, pure locust-bean meal and pure flaxseed ground, with the oil left in. You cannot begin to get the results from any other method of calf-raising that you can get from feeding Blatchford's Calf Meal, the complete milk equal. PRICES: 25-lb. bag, \$1.50; 50-lb. bag, \$2.75; 100-lb. bag, \$5.50.

BLATCHFORD'S CHICK MASH

IT GIVES THE CHICKS A CHANCE Many poultrymen lose from one-third to one-half of all their chicks before they feather out. Improper feeding is the cause. Others are finding they can raise 90 to 95 per cent. of their chicks by starting and growing them on Blatchford's Chick Mash. It is the favored starting and growing feed of the most prominent and successful poultrymen in the country. It contains all the feeds and nourishment chicks need right from the start and shields them from White Diarrhea, Bowel Trouble and Leg Weakness.

50c. 25 lbs., \$1.50. 100 lbs., \$5.50



100-pound bags 500-pound lots..... ...20.00

Blatchford's Essential Minerals for Cattle, Sheep, Hogs and Poultry

The recent recognition by authorities and the growing demand for minerals has encouraged many companies and individuals to compound and market minerals for livestock and poultry. Naturally, many of these compounds are of questionable value, if not harmful, and are in some cases compounded without adequate knowledge of the subject. Blatchford's Essential Minerals are made in four distinct products—one for cattle, one for hogs, one for sheep and one for poultry, according to the different needs of these animals. Blatchford's Essential Minerals are not tonics nor medicines, but feeds that balance the ration. By correcting the ration, Blatchford's Essential Minerals will give you healthier, more virile stock, you will avoid many allments that result from lack of minerals in the feed, and will obtain bigger profits through increased production from your flocks and herds.

HOG OR-DIGESTER TANKAGE

FISH MEAL TANKAGE

G. & T. CO'S HIGH GRADE PURE BEEF SCRAP OR MEAT MEAL

40-50 AND 55 PER CENT. PROTEIN
This Beef Scrap is the highest possible grade, and is made from Pure Beef Trimmings and cracklings, and has no pork or other materials to cheapen same. It is fully guarantees to quality and will keep indefinitely. Price: 5 lbs., 50c. 100 lb. bag, 40% \$4.50; 50% \$4.75; 55% \$5.00.

ALFALFA MEAL

This is a green feed all the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which, at the same time, has a medicinal value. 5 lbs., 25c. 50 lbs., \$1.80. Per 100-lb. sack \$3.00.

Chick Manna or Health Food (FOR LITTLE CHICKS)



Chick Manna is one of the first foods put up especially for baby chickens. It is the best thing on the market, and should be used exclusively for the first ten days. It will save many little chickens, and will repay many times its cost. The first ten days will decide whether the chick will grow into a profitable chicken.

Prices:

With Chick Manna you are sure of a prime healthy chicken, one that will pay you to raise.

1-pound package.....\$.15

5-pound package.....\$.60 5-pound package... \$.60 15-pound package... 1.45 .\$3.75 100 lbs.....\$7.00 .40

3-pound package. 25 lbs.....\$2.00 50 lbs......**\$3.75** - FOR CURE White Diarrhoea and Chicken Cholera can be

cured and prevented by AVICOL. STOP THE LOSSES!

AVICOL SAVES THE CHICKS—Avicol has a specific and selective action on the germs causing Cholera and White Diarrhoea. It knokes the germs and gives the chick a chance. Prices......50c. and \$1.00

HACKETT'S GAPE CURE

CURE FOR CHICKEN GAPES

No drugging; simply confine the chicks and dust the powder over them; they inhale it: kills both worm and germ; treat the whole brood at once in less than five minutes.

Package, 40c. Postage on single package, 5c. extra.





TABLETS FOR EGG LAYING Scientifically compounded to make a balanced tonic and regulator for hens and to stimulate egg laying.

A concentrated Medicine—no filler. Price 50 cents and \$1.00 Packages

SUCCULENTA

do away with all the bother, the and labor of feeding your ens green sprouted oats, cabbage, beets, roots and all other ereen food. Simply dissolve a

GRANULATED CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 5 lbs., 50c. 25 lbs., \$1.25. 50-lb. sack, \$2.00. 100 lbs., \$3.00.

GRANULATED MILK FOR POULTRY

1 lb., 15c. 25 lbs., \$2.00. 100-lb. bag, \$7.00.

.60

.25

.50





RY USING DW-KAR

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KARE**. Caregive a dose fully follow the directions as given on the box, and that cow well

will get well.

ROW-KARE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the perves and prevents nerves and prevents disease. It increases the milk. It is a medicine for cows only. Prices, small size, 65c.; large size, \$1.25.

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **Bag Balm**. It is a soothing, penetrating ointment, especially adapted for all those serious and amoying troubles known as caked ed for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **Bag Balm** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequaled success, and is found on the most progressive farms in the country. **Price** country.

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described below, only it is ground much finer. 5 lbs., 40c. 10 lbs., 60c. 50 lbs., \$2.10. 100 lbs., \$3.50.

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. We carry two sizes—No. 1 for grown fowls, and 2 for young chicks. 5 lbs., 40c. 10 lbs., 60c. 50 lbs., \$2.00. 100-lb. sack \$3.50.

CRUSHED OYSTER SHELLS

It aids digestion as well as supplying lime. No. 3 for young chicks. 5 lbs., 15c. 100 lbs., \$1.00. 500 lbs., \$4.50. Special prices in larger quantities.

MICA QUARTZ GRIT

5 lbs., 25c. 100-lb. sacks, \$1.00. 500 lbs., \$4.50. (Poultry, Pigeon and Chick Sizes.)



BLACKMAN'S SALT BRICKS

Easiest and best way to give medicine to stork. It salts them too. Blackman's Medicated Salt Brick, originated y a noted Veterinary Surgeon, insures stock by a noted Veterinary Surgeon, insures stock getting the needed medicine without trouble or loss of time to their owners. When dropped in the feed-box, the brick is licked by the animal as needed, just as people use salt with their meals. Contains Copperas for Worms, Sulphur for the Blood, Saltpetre for the Kidneys, Nux Vomica, a blood tonic, and Pure Dairy Salt. It is a wonderful improvement over the old plan. Why not try it?

DOZEN \$3.00

. \$3.00

WATER GLASS

up expressly for packing away eggs, when they are

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble. A few doses will send a dull, listless horse

of the trouble. A few doses will send a dull, listless norse on its way rejoicing.

Its curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent founders, distemper, coughs, colds and swelling of the glands of the throat. **Small size**, 35c.; Large Size......65c.

HORSE COMFORT

The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind. HORSE COMFORT is a liquid preparation which is unequaled in its power to guickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins. **Price per bottle, 35c. and 65c.**

GRANGE GARGET REMEDY

SPRATTS DOG REMEDIES

These remedies have been on the market for fifty years, and are sold in most every country in the world. In offering them for sale we recommend them as being the best in their

line, and properly used will give satisfactory results.

We do not list but a few of the various remedies of this standard make and if you desire any of those we do not list, we will be glad to get them for you.

We will be glad to get them for you.

Spratt's Dog Cake, the standard dog food used at the different kennels and dog shows throughout the world. Prices, small carton, 20c.; medium carton, 40c.; large carton, 75c.; 100-lb. bags, \$12.00; 25-lb. boxes, \$3.25; 50-lb. boxes, \$6.35; 100-lb. boxes, \$12.50.

Spratt's Puppy Cake, small carton, 20c.; medium carton, 40c. Spratt's Puppy Meal, carton, 20c. Spratt's Pheasant and Turkey Meal, carton, 40c.; 25 lbs., \$3.25; 50 lbs., \$6.10; 100 lbs., \$12.00.

\$3.25; 50 lbs., \$6.10; 100 lbs., \$12.00.

Spratt's Fibo

Spratt's Alterative Cooling Tablets

Spratt's Anti-Vomit Tablets

Spratt's Diagestive Tablets

Spratt's Diarrhoea Tablets

Spratt's Distemper Tablets

Spratt's Hair Stimulant and Restorer

Spratt's Kidney Tablets .60 .60 Spratt's Liniment Spratt's Pneumonia Tablets Spratt's Purgative Tablets
Spratt's Worm Capsules for Puppies
Spratt's Tonic and Condition Tablets for toy dogs and .60 .60 .60

puppies

Spratt's Distemper Tablets for toy dogs and puppies.

Spratt's Vermifuge Capsules for toy dogs and puppies.

Spratt's Eczema and Sarcoptic Mange Remedy

Spratt's Fatent Improved Dog Soap (White), for fleas, lice, etc. It is entirely free from poison and at the same time most effective in the destruction of lice and

Spratt's Patent Antiseptic Soap (Black), for veterinary uses, etc. Per cake

SAL-VET is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the **Salt** they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the leach-like hold these blood-sucking parasites have on the tender linings. It drives the robbers out—without bother or trouble to you. Your animals eat SAL-VET in place of common salt and thus **doctor themselves**.

A SINGLE WORM-INFESTED HOG IN YOUR HERD IS A CONTINUAL MENACE TO YOUR HOG PROFITS

It is the worm-infested, half-starved animals that spread the deadly worm-curse over your farm. They are disease-breeders and disease-carriers of the worst kind. Helpless themselves to resist contagion, they let down the bars to the cholera scourge and death stalks through your herd. They are the danger spots in every herd.

10-lb.	packages "Sal-Vet"at	\$ 1.00	each
15-lb.	packages "Sal-Vet"at	1.50	each
	pail "Sal-Vet"at	4.00	
	kegs "Sal-Vet"at	6.75	
200-lb.	barrels "Sal-Vet"at	12.00	
300-lb.	barrels "Sal-Vet'at	16.00	each

BANNER ROOT CUTTERS

No. 7

EXCLUSIVELY FOR POULTRY
It cuts fast and is easy running.
Leaves the feed in fine brittle, ribbon-like strips that make choking impossible. Fowls large or small can safely eat the feed. The knives are adjustable and made of the very best of steel. An iron grate in bottom of hopper lets dirt and gravel escape before reaching the knives. In this cutter we offer the poultrymen a low-priced, high-grade, nicely-finished and mechanically constructed machine,



Banner No. 7

BANNER No. 28

A New Root Cutter. A Shredder. Using the Patent Banner Knife. For Poul-trymen, for Sheepmen, for Stockmen.

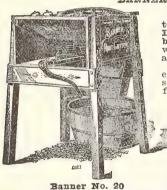


A Root Cutter that cuts all roots and vegetables like Beets, Carrots, Potatoes, Onions, Apples, Turnips, Cabbage or anything else of the same nature into ribbons, literally shredding the material into feed cut so fine that all stock and poultry can feed without danger of choking. Built strong and stout to stand nower use

Banner No. 28

Banner

BANNER No. 20



The No. 20 Banner Root Cut-ter. It is made for hand power. It has a capacity of 30 to 50 bushels per hour, although it will cut at the rate of a bushel a minute easily on the test.

It is well built, nicely finished, runs easily, feeds itself, separates the dirt from the cut Price, \$18.50

BANNER No. 25-FOR HAND OR POWER.

This is a new style ma-

It can be used by hand or light power. Is very strong and durable. Capacity 30 to 60 bushels per hour.
Weight, 100 lbs.

Price, with crank \$17.50

BANNER No. 16

A GRAND MACHINE FOR HAND AND POWER USE— Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Weight, 150 lbs. Capacity by power, 2 to 3 bushels per minute. Our Retail Price, \$26.75.

No. 35—BANNER ROOT CUTTER.

Heavy construction for hand or power, weight, complete, 185 pounds; capacity of hopper about 3 bushels.

This is a cylinder type cutter and is made strong to stand power. The hopper is large and deep. The Cutting Drum to which the knives are attached is strong and will not break or wear out. It is positive feed as the roots lay on top of the Cutting Drum. It has 30 gouge-shaped knives.

Price, complete, with Pulley and Crank\$37.50

NEW BANNER "30" ROOT CUTTER

Turns easily by hand. At 60 revolutions, the knives hit and cut the roots 1800 times. The result being at a low estimate 1½ to 2 bushels per minute of cut feed. Cut feed left in long half round slices that has made the Banner Root Cutter a popular machine for this work for 20 years.

Weight, 175 to 190 lbs. Price, \$40.00.

WILSON No. O FAMILY GRIST MILL

This mill is especially made for grinding Graham Flour or Cornmeal; can be adjusted for cracking grain if desired. Weight, 30 lbs., \$7.50. With iron stand; weight, 65 lbs. Price, \$10.50. Diameter of hand wheel, 20 in.

WILSON No. 1 BONE AND SHELL MILL

Weight, without stand, 33 lbs...\$7.50 Weight, with stand, lbs......10.50



Black Hawk Feed and Grist Mill

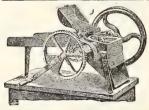
Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. Weight, 17 pounds. Price...\$3.75

MANN'S GREEN BONE CUTTER



ward per hour.



Poultryman's Clover Cutter
Designed for cutting, either
green or dry, such growths as
clover, alfalfa, vegetable tops,
etc. These growths are the
cheapest and most productive
egg-forming poultry foods for
cold weather.
With four 7-in. knives;
weight K. D., 60 lbs...\$20.00
Gem Clover Cutter.....\$34.00
Gem Clover Cutter with
legs\$35.00

legs\$35.00

QUEEN INCUBATORS

Queen costs but little more, and the extra chicks that live and grow soon pay the difference.

Remember, it is not how many chicks you HATCH that counts, but how many you RAISE. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and ioss. They make one sick of the poultry business.

Most of the chicks you lose in the first few weeks die because they did not have, when hatched, enough strength or vitality for a good start. Queen Incubators are famous the country over for big hatches of strong, healthy chicks that live and grow.

PROPER INSULATION

The Queen is doubly insulated. First we use double walls of California Redwood, forming a deadair space. Second, corrugated strawboard is used between the wooden walls. Proper insulation adds considerable expense to the manufacturing cost. However, it is an absolute requirement of a good incubator.

QUEEN HOT WATER HEATING

The Queen System of hot-water p.events endencies

tendencies found in 1.00 cm. Med-bators and provides a soft, uni-form heat over every part of the egg of amber—a heat that is most natural for the hatching eggs. The circulation of water through the radiator pre-rents any moisture being added or taken away from the eggs. When it becomes necessary to remove the lamp, the hot-water circulating through the radiator maintains an even heat within the egg chamber without the

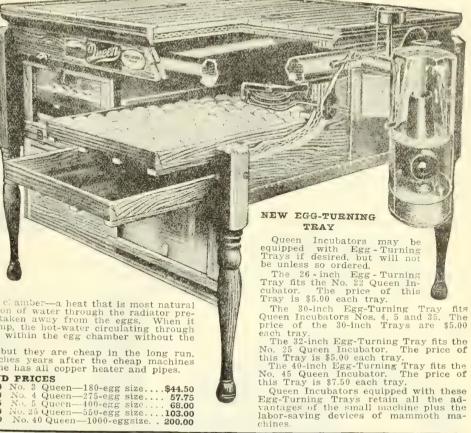
the radiator maintains an even sightest variation.

Queen Incubators are not cheap, but they are cheap in the long run.

They will be turning out good hatches years after the cheap machines have been junked.

The Queen line has all copper heater and pipes.

	0.0			SIZES AND	D PRI	CES		
No.	20	Style	K- 70-egg	size \$16.50	No. 3	Queen—180-egg	size	\$44.50
- 4 U+	62	DI. IU	12 100-6	SIACL Auth	No 4	Oneen 275 eco	ciro	CD DC
740.	44	211116	17	S172 30.75	1 1 1	()1100n 400 orre	Circ	00 00
TAO.	- 4	Ancer	i — sa-egg	Size 27.50	IVO. 25	(-)11een550-egg	SiZO	103.00
INO.	- 2	Queer	1 —135-egg	Size 37.5J	No 4	0 Queen-1000-es	rocizo	200.00



The Prairie State Sand Tray Incubator



No. 1.0 hen eggs; 125 lbs, crated... No. 1—150 hen egs; 160 lbs, crated... Keystone Incebarers. \$25.00

OUEEN INDOOR LAMP-HEATED BROODER

Queen Indoor Brooders are made of the same selected, high-grade lumber that is used to construct the outdoor brooders, and painted with two coats of paint.

No. 8—165-chick size, shipping weight 78 lbs.....

No. 9—250-chick size, shipping weight 80 lbs.....

INCUBATOR LAMPS

No. 1 Lamp and No. 2 Lamp and					
No. 3 Lamp and	Burner,	using	1 1/2 -in	. wick.	 . 2.50 each
Brooder Lamp, o					
No. 1 Sun Hinge					
No. 2 Sun Hinge					
No. 3 Sun Hinge					
No. 1. Wick					
Nos. 2 and 3 Wic	ks				 50c. doz.

Queen Tested Thermometers

	Incubator Thermometers, postpaid	
	Brooder Thermometers, postpaid	
No. 5778	5 Incubator Thermometer; postpaid	. 1.00



EGG TESTER

PRICE 25c POSTPAID 35c

QUEEN STOVE BROODER

The Queen Colony Brooder is a new and improved design of brooder stove. It is made of highest quality iron castings that will wear and last indefinitely.

There are no drafts on the smoke pipe of the Queen. The check rests on top of the stove and opens outward when fire is too warm, thus giving a gentle inflow of air to retard the heat. While the opening of the draft to increase the fire is located at the top of the stove, it opens into the fire at the base through an opening extending down the side to the bottom. This feeds the draft into the fire from underneath, with no opening below the hover.

BURNS ANY KIND OF FUEL

The Queen stove burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel, and hard or soft coal, coke or charcoal burn equally well. Of course, hard coal will not cause the pipe to become dirty as quickly as the others, but it will give no better heat. Diameter of Diameter Dia of Pipe Ship.

Capacity Canopy No. 0 Stove 400 chicks 42 No. 1 Stove 800 chicks 52 No. 2 Stove 1200 chicks 56	Height	Of Cyl.	Of Grate	Collar	Weight.	Price		
	18 in.	10 in.	9 in.	4 in.	76 lbs.	\$16.50		
	23 in.	10 in.	9 in.	4 in.	83 lbs.	21.50		
	26 in.	11 in.	10 ¾ in.	4 in.	104 lbs.	26.50		
PIPE FOR STOVE BROODERS 4-inch Galvanized Pipe in 10-foot Lengths, per foot								

	PIPE FOR STOVE BROODERS						
4-inch	Galvanized	Pipe in 10-foot Lengths, per foot					
5-inch	Galvanized	Pipe in 10-foot Lengths, per foot					
		Elbows					
		Elbows					

QUEEN OIL BURNING BROODER

STRONG SIMPLE SERVICEABLE Broods Chicks That Live and Grow



CONSTRUCTION

This picture shows the construction of the legs. See how they are braced. An innovation in Brooders.

				Fr	ice	28											
300-Chick	size.	32-inch	hover	 				 	 	 	 				. \$	160	ю
. 600-Chick	size,	42-inch	hover	 			 ,	 2.	 	 	 			*, *		18.0	90
1200-Chick	size,	52-inch	hover	 				 	 	 	 		٠.			20.0	00

Wick of indestructible asbestos. No solder used on burner. All welded. Cannot leak. Oil cannot overflow. Attractive guard around burner and

overflow. Attractive services of the cross pipes, Two-gallon metal tank. Metal tank minimizes ire risk. No overflowing. No bottle to break. Sew moving parts. All visible. Parts seldom

The canopy is made from heavy galvanized iron, with a special beading and crimping process on the edge, which adds greatly to its strength and The top ventilator

rovides a good irculation of heat and air at all times.

Clean the wick occasionally. Refill the tank every 48 hours and it will take care of itself. Nothing to break.



THE NEW QUEEN MAGAZINE **BROODER STOVE**

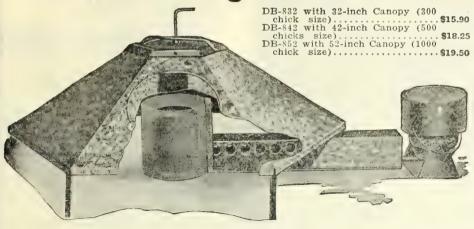
Here's the brooder stove that ends the trouble and work of constant refueling, that assures you more even heat every hour of the day and night. This latest model Queen Brooder Stove has a fuel magazine which will hold as much as 75 pounds of coal. Just fill magazine and you can forget about your fire for hours at a time. Coal is fed into stove from magazine evenly and gradually as needed. Your fire never gets too low from lack of fuel. You don't have to be constantly bothering yourself or disturbing your chicks with refueling. No worry while you are away from home. It feeds itself from the magazine until every chunk of the 75 pounds of coal is burned.

SPECIFICATIONS ON DIMENSIONS

	Depth of fire box14" Diameter of Grate13%"
Pipe Opening 5"	Diameter of Canopy60"
Coal Capacity, lbs75" 1600 Chick Capacity	Stove and Canopy, lbs165

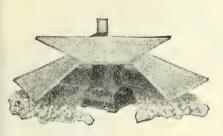
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DREW Thermo-Regulated Oil Brooder



The Drew Line "Thermo-Regulated" Wickless Blue Flame Oil Burning Brooder Stove is the most practical, most accurately controlled oil brooder ever offered to the poultry raiser. It insures uniform temperature for the baby chicks regardless of weather conditions outside

You can go to bed vithout a worry about your chicks! They are positively protected against changes of temperature and against extremes of cold and heat. This simple thermostatic mechanism raises and lowers the oil pipe line so that the flame of the burner increases or decreases and the amount of heat generated is thus effectively controlled, the chicks always getting the desired amount of warmth.

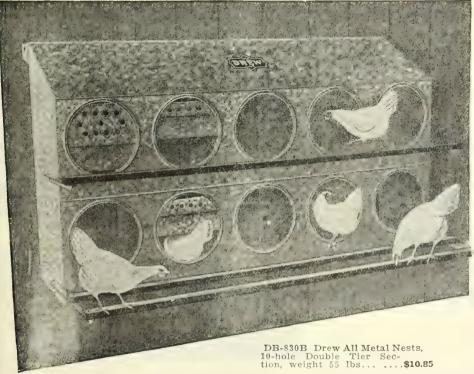


Drew Brooders with 46-inch and 60-inch Hover

We manufacture two sizes of hovers for the Drew Coal Brooders but only one size stove. What does that mean to you? It makes no difference what size brooder you buy, you get a big capacity stove.

Every Drew hover is built of copper bearing, tight coat galvanized sheet steel and will last just as long as the cast iron stove. The hover bolts rigidly to the body of the stove, no danger of knocking down the stove pipe. The two handy doors make it easy to remove the ashes, adjust the thermostat, sweep out from under the hover, and care for the chicks without raising the hover and losing heat valuable to the chicks. An unusual hover and a most practical one.

PRICE: Brooder with 46-inch Hover. \$22.50 Brooder with 60-inch Hover. \$26.45



DREW ALL-METAL, LIGE-FREE NESTS

Drew Line of Sanitary Nests are made in three combinations—3-hole, 6-hole and 10-hole. Drew nests are neat, they are pleasing in appearance, they are sanitary, they are comfortable. Built of first-grade copper-bearing galvanized steel sheets, they are quality nests that will withstand hardest service for many years.

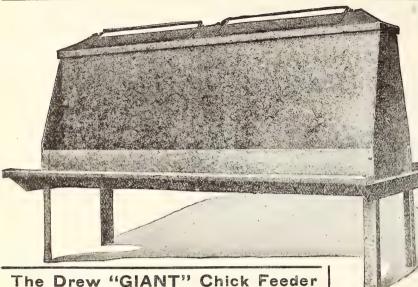
The nest boxes are 11½ inches wide and 13 inches deep, with a 9¼-inch nest-hole, sufficiently large for average flocks.

We recommend one nest for every five hens. To clean nest, swing the section out from the wall and the old nesting material will drop out. The all-steel construction eliminates harboring places for lice and mites. All nests are designed to suspend from the wall.

Drew Trap attachment with special double hinge, sure-drop construction as shown on DB-830 Nest Section above. Can be furnished if desired.

DB-831 Drew Trap Attachments, weight 1 lb.... .45





Drew Poultry Mash Feeder

Here is the greatest mash feeder on the market today—a real egg-maker and a big mash saver. It has a large egg-mash capacity.

The 50-pound size is equipped with a mash hopper 24 inches long, 22 inches deep. The extra deep feed troughs on both sides of the hopper enable a large number of hens to feed at one time without wasting valuable feed. This size is designed to accommodate 75 hens.

The 100-pound size is similar in design and construction, but is just twice as large in egg-mash capacity. Both sizes are made of the best galvanized steel and are of par-ticularly sturdy construction.

DB-800A Drew Mash Feeder; weight 60 lbs. Capacity 100 pounds egg-mash....\$11.90



DB-836 Giant Chick Feeder

The Drew Giant Chick Feeder is es-pecially designed to pecially designed to care for flocks of 200 to 300 chicks. The feeder is 35 inches long, 17 inch-es high and 11 inch-es wide at the base. It holds about 50 pounds of chick mash and it will permit about 50 chicks to feed at one time. convenience in filling.

A removable cover at top is provided for convenience in filling.

The wire tilting device on the cover prevents chicks from roosting on the top and fouling the feed and spreading disease.

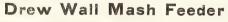
DB-836 Drew Line "Giant" Chick Feeder; weight 23 pounds.

All flocks require green feeds and wet mashes if best results are to be obtained. Why waste valuable feed? This trough will last a lifetime and will save its price many times over. It is made of the best galvanized steel with a trough 60 inches long and 21 inches wide over the perches. It stands 21 inches high to top of grards. The wire guards keep the feed clean and prevent waste. A mighty good investment for any poultry man.

DB-525 Drew Wet Mash or Green Feed Trough, weight 30 lbs...\$5.95

Green Feed Trough

Wet Mash or

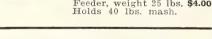




The Drew Wall Mash Feeder holds 20 pounds of egg-mash. It was designed particularly for flocks of twenty to thirty hens. It is built with a special deep feed trough to prevent hens from wasting mash. Made of hot galvanized copper steel—will last a life time. Designed to be hung on wall—a convenient feature.

DB-820 Drew Wall Mash Feeder, weight 15 lbs. \$3.00 Holds 20 lbs. mash.

DB-840 Drew Wall Mash Feeder, weight 25 lbs. **\$4.00** Holds 40 lbs. mash.







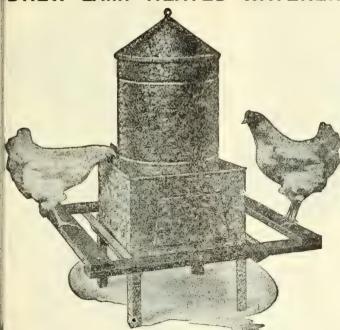
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Drew Handy Feed Scoops

Drew Line Handy Feed
Scoops are a necessity
around the poultry house.
Strong construction with
handle securely riveted to
body of scoop. Can be used
for many other purposes on
any farm. Made in two sizes, capacities of 2 quarts
and 4 quarts, respectively.
DB-542 Drew Handy Feed
Scoop, 2-quart capacity;
\$0.50

weight 1½ pounds. Price. \$0.50
DB-544 Drew Handy Feed Scoop, 4 quart capacity;
weight 2 pounds. Price. \$0.75

DREW LAMP-HEATED WATERER



The Drew Line Chick Feeders

Large capacity Drew Self-Feeders are for baby chicks and for chickens up to three months old. They are made of heavily galvanized copper-bearing sheet steel, designed specifically to meet the peculiar requirements which have been found necessary for the successful Self-Feeder. The trough is deep—3 inches wide at the bottom, 5 inches wide at the top, with body below the feed holes over 2 inches deep.



DB-813, 12-hole, 13 inches long



ly save. They not only do prevent waste but they also save time as they do away with the necessity of constant filling and attention. A practical froncy-making feeder. The egg-shaped feed holes have smooth, folded smooth, folded important

feeders

These pay their own way through the

feed they actual-ly save. They not

An important feature is the special tilter on the sliding cover.

DB-825, 24-hole, 25 inches long

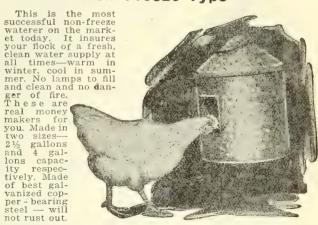
Chicks from roosting on the cover and fouling the feed.

Sanitary, thoroughly practical—an exceptional value, regardless of the size you require. Made in three sizes.

DB-807, 6-hole Self Feeder, 7 inches long, weight 3, 12-hole Self Feeder, 13 inches long, weight 14, lbs. .50

DB-825, 24-hole Self Feeder, 25 inches long, weight 2½ lbs. .75

DREW POULTRY WATERER Non-Freeze Type



Jacket of water is completely insulated with redwood and red cedar insulation, as shown in the illustration. A removable chaff cup is provided in the drinking trough to catch chaff and dirt. Waterer may be hung on the wall by a special attachment provided for that purpose, or it may be set on a box, up out of the litter. Bottom of waterer has double-crimped edge all around, which keeps the concave bottom out of any water, and prevents rusting.

Fill waterers with hot water at night when chickens have gone to roost and water temperature will be just right in the morning. Warm water in winter-cool water in summer means higher production at less cost for you. You cannot afford to do without one of these waterers.

DB-519 Drew Non-Freeze Waterer, 21/2 gallon capacity; weight 25 pounds. Price.....\$4.25 DB-518 Drew Non-Freeze Waterer, 4 gallon capacity; weight 32 pounds. Price...... \$5.40

DREW CHICK TANK



The Drew Chick Tank has been used by thousands of poultry men who claim that it is the best thing of its kind on the market. This 11/2 gallon capacity, 100-chick size is built of heavy rust-resistant copper-steel, heavily galvanized. It is rust proof and sturdy-an ideal, large capacity waterer.

There are only two parts to this waterer—the buck-





Nesco Cone-Shaped Drinking Fountain

1	Quart\$.30
2	Quarts	.35
4	Quarts	.45



NESCO ECONOMY CHICK FOUNT

No	0
Diameter Pan, ins.	5
Height, inches	4
Each 15c.	



BOTTOM FILL **FOUNTAINS**

The round taper shape prevents damage from freezing. No. Capacity Each 19 1 Quart \$0.25 No. Capacity Each 19 1 Quart \$0.25 Packed 24 to case. 20 2 Quarts .35 Packed 24 to case. 24 1 Gallon .50

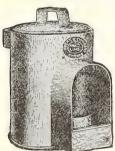


DROP BOTTOM **FOUNTAIN**

Packed 12 to case.

Drop Bottom, easy to fill and to clean. Has wire handle and may be hung on the wall out of the litter and dirt.

No. Capacity Each 40 2 Quarts \$0.85 Packed 12 to case. 41 1 Gallon 1.00 Packed 6 to case. 42 2 Gallons 1.2 42 2 Gallons 1.25 Packed 6 to case.



Wall Fountain

The covered out-let keeps out dust and dirt, and a removable plate prevents any floating rubbish from be-ing drawn into the reservoir.

No. Capac. Each 98 1 Gal. 1.00 Packed 6 to case. 99 2 Gal. 1.46 Packed 4 to case. 1.40



MOE'S "TOP FILL" FOUNTAIN

Automatic Feed Easy to Fill and Keep Clean

Gallon Gallons Gallons 2.25 2.75 Packed 1 to case.



FEED AND DRINKING CUPS GALVANIZED

Especially suitable for Exhibition Coops.

No. 61—Each\$.15 Doz.



WATER PANS

16 in70	$\frac{12}{14}$ $\frac{16}{16}$	in.					.50 .60
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MASON JAR FOUNTAIN

No. 142. Mason Jar Fountain, made of tin, and is screwed on an ordinary glass jar. Diameter 6¼ inches.
Price, each..\$0.10
Dozen..... 1.20

Price, eac... Dozen..... 1.20 14.40

(Glass jars are not included.) Packed 6 and 12 doz. to case.



No. 32 Moe's Star Fountain and Feeder

Made of a single Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as wa-ter. Little chicks cannot drown. Fits

No. 133 MOE'S STAR BUTTERMILK FEEDERS

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. The same material as is used in milk cans, cream separators, etc. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.



Moe's Star Fountain, in Tin Plate, fits Mason Jars in 1-pt., 1-quart and 2-quart sizes.

Packed one ross in carton. Shipping weight per goss 35 lbs. Per dezen, 4 lbs.

MOE'S DOUBLE FLEDING TROUGHS



No. 58—12 in \$.30
Packed 24 to case. No. 59—18 in.	.4
Packed 12 to case.	
No. 60—24 in	.6
No. 21—12 in., Single Row	.2
Packed 24 to case. No. 22—18 in., Single Row	.4
Packed 12 to case.	
No. 23—24 in., Single Row	.6
No. 55—12 in. Single Row	B.C.
Packed 24 to case. No. 56—18 in. Single Row	.3
Packed 24 to case. No. 57—25 in. Single Row	.4
No. 57—25 in. Single Row	-2

BABY CHICK FEEDERS



No. 11—Diameter 6 in. with 8 holes, each '10c. Packed ½ Gross to Case. No. 12—Diameter 8¼ in. with 12 holes, each 20c. Packed ½ Gross to Case.

Moe's Buttermilk Feeders



Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for butermilk and sour milk.

No. 131. Moe's Round Tin Feeders. Diameter 6 in., with 8 feeder holes. Packed ½ gross in a carton. Shipping weight per gross 55 lbs.; per dozen 5 lbs..

Price each ... \$0.15. Per doz.. \$1.30

No. 132. Moe's Round Tin Feeders. Diameter 8½ in., with 12 feeder holes. Packed ½ gross in a carton. Shipping weight per gross 110 lbs. per dozen 10 lbs. Price each... \$0.30 Per doz.. \$3.60

Porcelain Enameled Feeders



Moe's Round Chick Feeder, white por-cciain enameled inside, not affected by milk acids and just the thing for feed-ing buttermilk, sour milk and medicated feeds. Sanitary and safe. Easily kept clean. Diameter 81/4 inches with 12 feed-

er holes. Packed 24 in a carton. Shipping weight 21 lbs. per carton.

No. 190. Moe's Enameled Feeder, ea. \$.75

Per doz. \$9.00

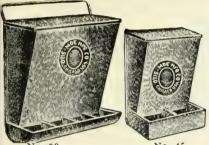
Moe's Eclipse Feeding Troughs



27-10 inch, Galvanized	\$.20
	.30
	50
	.50
	90
	27—10 inch, Galvanized 28— acked 24 to case. 28— acked 12 to case. 69—16 inch, Aluminum Packed 24 to case. 70—20 inch, Aluminum Packed 12 to case.

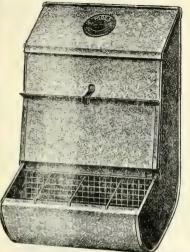
GRIFFITH @ TURNER CO.

Grit and Shell Boxes



No. 90	No.		
No. 45-Two compartments		\$.40
Packed 12 to ca			O.F
No. 9—Three compartment Packed 6 to cas			.85
No. 90-Four compartments.		. 1	.20
Packed 6 to case	e.		

Dry Mash Hoppers



No.	35-Width 81/2 in\$1.50	0
	Packed 6 to case.	
No.	36-Width 12 in 1.78	5
	Packed 4 to case.	
No.	13-Width 18 in 2.2	5
	Packed 4 to case.	
No.	37-Width 24 in 2.6	0
	Packed 2 to case	_

Moe's Giant Fountains



MOE'S GIANT TEN GATTON POULTRY FOUNTAIN

heavy galvan-ized steel, sturdy and simple in construction. large capacity, substantial fountain at a low price.

Height 24 inches. Diameter 12 in. Capacity 10 gallens. Packin a Shippingint 10

No. 78. Giant Fountain. Each ...\$2.95

No. 193

MOE'S PEERLESS FEEDERS

For chicks and growing fowl. Made of heavy gal-

For chicks and growing fowl. Made of heavy galvanized iron, with a large capacity and perfectly suited for either large or small flocks. The magazine or hopper is adjustable up or down for different kinds of mash and feed and can be set to feed slowly or rapidly.

Has a removable cover, so it is easy to fill, and the bottom is cone-shaped so the contents will not clog. The slotted openings are accurately formed with turned-over edges to prevent any injury to the fowl. The vertical feeder holes also make it impossible for the chicks to foul or waste the feed. Thirty chicks can feed at one time. No. 192. Peerless Feeder. Diameter of base 12 in. 30 feeder holes. Diameter of magazine 9½ in. Total height 12 in. Capacity 10 qts. Packed 1 in a carton. Shipping weight 6 ibs.

Each \$1.40 Per dozen \$16.80

No. 193. Peerless Feeder. Diameter of base 12 in. 30 feeder holes. Diameter of magazine 9½ in. Total height 18 in. Capacity 18 qts. Packed 1 in a carton. Shipping weight 7 lbs.

Per dozen \$22.80

Heavy Tin Buttermilk Feeders



Feeding Troughs in Tin Plate. Sliding Top. Easy to clean. No seams, riv-

Plate. Sliding Top. Easy to clean. No seams, rivets or solder. Clean, sanitary feeders.

No. 137—10 in. 10 holes. Packed 24 to case. Each,... 25c. Doz... \$3.00

No. 138—20 in. 20 holes. Packed 12 to case. Each... 40c. Doz... \$4.00

Moe's Magazine Chick Feeder and Waterer

> A new chick feeder and waterer with a magazine or container toholdagood quantity.

No. 18 2 Qts.50

with

Moe's Winter Fountain



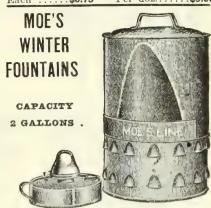
\$3.60 1.70 4.85

Adjustable Milk Fountain



Packed 24 in a carton. Ship-

weight 32 lbs. No. 139. Magazine Tin Feeder. Each\$0.75 Per doz.... . . . \$9.00



A fine practical winter fountain, with lamp heater. Made of heavy galvanized iron, easy to fill, and the fountain fits snugly on the heater base. It is similar to our No. 75 but smaller and the base has no hinged door. Capacity 2 gallons. The lamp is placed in the base from the top and the fountain can be used independently when desired. Lamp will burn continuously for one week without refilling.

Diameter 9½ in. Total height 16 in. Packed one in a carton. Shipping weight 6½ lbs.

No. 76. Each ... \$2.50 Per doz ... \$30.00

MOE'S INSULATED DOUBLE WALL FOUNTAINS



Made in three sizes.

Moe's Insulated Poultry Fountains are made of heavy galvanized iron with thick double walls. The space between the outer and inner wall is packed with a highly efficient insulating material which keeps the water warm in winter and cool in summer.

In Winter. Fill at night with hot water, keep in basement or warm room, and in the morning the water will be of the right temperature for the poultry house. The hot water thoroughly heats the insulated walls during the night, so freezing is retarded during the day.

In Summer. Fill with cold water, place in shady spot, and the water will remain cool and fresh all day.

No. 5, 2-Gallons...\$3.00

No. 6, 3-Gallons...\$3.00

No. 7, 5-Gallons...4.50

cked one in a carton.

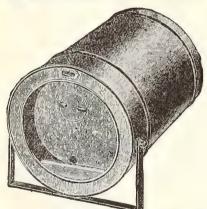
Packed one in a carton.



out of order.
Packed 3 to case.

No. 10. Price, each .. \$1.90

Insulated Double Wall Four



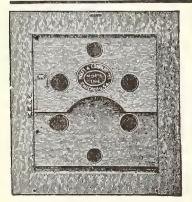
Made of best quality galvanized
with double with double walls packed with an efficient insulating material.

The wrought iron stand or rest is hinged, and acts as a handle to carry the fountain.

Plenty of fresh water at the right temperature, in zero or torrid weather will keep your birds healthy and increase the egg yield.

Shipping weight, 16 lbs. Capacity, 3 gal-lons. Packed one in a box.

No. 8. Each \$4.00



A new inexpensive and A new inexpensive and useful device which meets a popular demand.

Made of best quality galvanized iron, simple

garvanized iron, simple in operation.
Can be easily fitted to any orange or ordinary wood box or coop and gives the breeder the opportunity to use a size nest adaptable to his birds.

Effectively traps the hen, yet allows ample ventilation.

Dimensions 11 in. wide by 12 in. high; 12 to case. No. 63. Trap nest front.

MOE'S MAMMOTH DRY MASH HOPPER



A large capacity hopper built

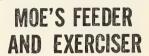
A large capacity hopper built on correct principles. Made of heavy galvanized iron, strong and substantial in every detail.

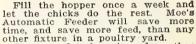
The taper shape and interior construction provides a uniform automatic feed, and the wire grid and cross wires prevents any waste. waste.

The stand is of heavy angle iron, painted, and has wooden bars for the poultry to rest on when feeding.

Length of hopper, 35 in. Width, 21 in. Height,

18½ in.
Capacity, 100 lbs. Height of stand,
15½ in. Total height, 34½ in.
Packed one in a box. Shipping



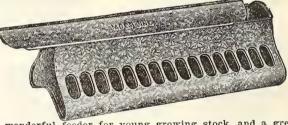


Fill the hopper once a week and let the chicks do the rest. Moe's Automatic Feeder will save more time, and save more feed, than any other fixture in a poultry yard.

Guaranteed to be rain and weather proof, rat and bird proof. Always ready to feed the chickens just as often and just as much as they want to eat, and at the same time makes them scratch and exercise in order to get it. Packed 1 to case.

No. 52-8 Qt.... \$1.25 PRICE: No. 53—16 Qt.... 1.75

CAPACITY FEEDER LARGE



A wonderful feeder for young growing stock, and a great me and labor saver when chicks are raised in large num-irs. Made of heavy galvanized iron in two sizes, both with

bers. Made of heavy galvanized from in two sizes, both with a large capacity.

Sliding top cover, easy to fill and clean, and the birds cannot roost on the cover or sides to foul the feed.

No. 140. Feeder, capacity 10 quarts, length 21 in., width 8½ in., height 7 in. 16 openings on each side, so that 32 chicks can feed at one time.

No. 141. Feeder, capacity 17 quarts, length 35 in., width 8½ in., height 7 in. 27 openings on each side, so that 54 chicks can feed at one time.

Each \$1.80

Extra Hopper for Large Capacity Feeder



No. 146 Hopper for No. 140 Feeder, each 50c.; doz., \$3.00. Packed 6 to case.
No. 148 Hopper for No. 141 Feeder, each 75c; doz., \$9.00

Packed 4 to case WIDE RAIN COVERS No. 147 for No. 140 Feeder, each 30c.; doz., \$3.60. Packed 12 to case.

No. 149 for No. 141 Feeder, each 50c.; doz., \$6.00.

Packed 12 to case.

GRIFFITH @ TURNER CO



THE LAWN PARK GOOP



It is made entirely of galvanized material, will not rust and is proof against all chick enemies. The body of coop is made from strong 28 gauge galvanized steel, the wire park is made from heavy ½-inch mesh galvanized wire screen.

The Lawn Park is large and roomy, being 18 inches wide, 19½ inches high and 24 inches long, with park closed and 48 inches long with park extended.

Gives absolute protection to chicks, permits chicks to grow and thrive nature's way.

PRICE, Each, \$4.00; 6 for \$22.50 Coop Without Park, Each, \$2.00; 6 for \$9.50

"Cymaco" Dry Mash Feeders



SOLVE THE FEEDING PROBLEM

The feeder that has won the highest favor among thousands of poultry men and farmers throughout the country. The CYMACO feeder is made of the best galvanized steel with enamelled steel legs to hold the feeder off the ground. The flow of the feed may be regulated by means of two thumb screws at either end of the feeder. Agitators are worked automatically by the fowls while feeding. The CYMACO accommodates twice as many hens as the ordinary hopper feeder. CYMACO is provided with a catch tray which prevents waste of feed and provides a means to close at night.

Shipping Weight

12	½ bu.	11 lbs.	\$2.25
24	1 bu.	17 lbs.	3.25
_			

Capacity

POULTRY TROUGHS



The above cut illustrates our new Cast-Iron Poultry Trough with arched lid, making it the best thing of its kind on the

Length, 12 inches; Width, 6 inches, with Arched	lid\$1.00
Length, 18 inches; Width, 6 inches, with Arched	lid 1.25
Length, 24 inches; Width, 6 inches, with Arched	lid 3.00
Length, 30 inches; Width, 6 inches, with Arched	lid 4.50
No. 2-Length 6 inches, V-shaped with lid	60
No. 4—Length 12 inches, V-shaped no lid	
No. 5-1-ength 18 inches V-shaped no lid	
No. 6—Length 24 inches, V-shaped no lid	2.00



OAT SPROUTER

Steel frame, well braced and painted. With six heavy galvanized iron pans which are interchangeable. Provides the very necessary green feed at all seasons.

Total Height 3 ft. Size of Pans 16x18 in. No. 110-Oat Sprouter Each \$6.00

MOE'S IDEAL POULTRY PUNCH

A new Improved Punch. Works easily, cuts clean, and does not pinch the foot. Length 3½ in. Nickel plate. No. 39-Moe's Ideal Punch Each 35c.



LANSDOWNE POULTRY MARKER

Our special price 25c.



PHILADELPHIA POULTRY MARKER

Large or small size. 25c.



CAPONIZING TOOLS

You can do your own caponizing easily with this set of tools. Each tool is made for this especial work, and are of the highest grade

Philadelphia Set....\$2.75 Farmer's Set...... 2.50

AND THE POULTRY Killing Knife

Expeditious and humane way of killing and dressing poul-y. Price, with instructions, each, 50c.

PHILADELPHIA GAPE ENTRACTOR, 25c. each. ...

WIRE HEN NESTS PER DOZEN \$2.50 EACH......25c.

PORCELAIN NEST EGG

The best and cleanest nest egg used. Each, 5c. Dozen, 35c. By mail, 45c.

LICE KILLER AND NEST

COMBINED IN ONE.

Lasting, effective. Not expensive. Does not affect the flavor of the egg nor injure it for hatching.

60c. Dozen.

LEG BANDS

ALUMINUM

CELLULOID





	Aluminum Bands		Celluloid	Bands	
er	dozen	.15 Per	dozen	\$	15
er	50	.50 Per	50		.35
	100		100		.60

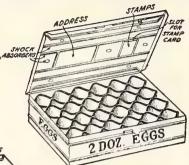
PPP

GRIFFITH @ TURNER CO



Parcel Post New Model

Metal Egg Crate
The biggest thing
to be said of the New
Model is that it is designed and built—both
in sid a cond in side and out—to eliminate waste of eliminate waste of fillers and breakage of Eggs as well as deterioration of the carrier, thus insuring long life.



METAL EDGE FILLER

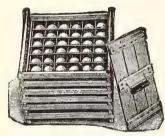
The new patented Filler made of card-board, circular in board, circular in shape (like an egg) and reinforced with Metal Edges to in-

sure strength, yet retain lightness in weight, is a wonder for safety and dura-



,	V															
Dozen	Egg	Size.														\$1.50
2 Dozen	Egg															
	Dozen Dozen Dozen Dozen Dozen	Dozen Egg Dozen Egg Dozen Egg Dozen Egg Dozen Egg	Dozen Egg Size.	Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size	Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size Dozen Egg Size Dozen Egg Size Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size Dozen Egg Size Dozen Egg Size Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size. 2 Dozen Egg Size.	Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size. Dozen Egg Size.	Dozen Egg Size. 2 Dozen Egg Size.	Dozen Egg Size 2 Dozen Egg Size	Dozen Egg Size. Dozen Egg Size.	Dozen Egg Size

						MATION							
No.	12	lbs.	and	1	dozen	eggs		 ٠.	 		٠.		.\$1.50
No.	24	lbs.	and	2	dozen	eggs	 	 	 				 . 2.00
No.	3-4	lbs.	and	3	dozen	eggs	 	 	 ٠				 . 2.50



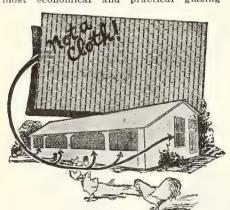
HUMPTY DUMPTY FOLDING EGG CRATES

The Humpty Dumpty Egg Carriers are strong and dur-able cases, the favorite of thouasises, the lavorite of mou-sands of shippers in the poul-try industry. It delivers the eggs in the best shape, giving the largest return. The eggs it saves soon pays for itself.

	Size				•								Price
3	Dozen	١.						·		,		. !	\$0.60
6	Dozen	١.			٠						٠		.75
	Dozen												
12	Dozer	١.											90

CEL-O-GLASS

CEL-O-GLASS is a new, unbreakable glass. most economical and practical glazing material on the



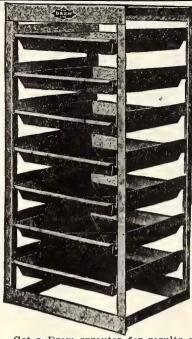
market. It replaces ordinary, fragile, costly glass for nearly every purpose.

CEL-O-GLASS

is made of coarse mesh galvanized wire cloth, treated in such a manner that the spaces between the strands are filled with a clear, translucent. tough, flexible substance that will not rub off, peel, or become brittle.

Is CEL-O-GLASS affected by weather conditions?

No. CEL-O-GLASS sheds rain, hail and sleet like the proverbial duck's back. It is unaffected by extreme cold and will stand over 400 degrees Fahrenheit. CEL-O-GLASS cannot rust. Three ft. wide. Per running foot.....\$.48



Drew Oats Sprouter

It's a dandy it every way and the price is right.

It has been stated a good many time that the only oat sprouter that was right was the open type. Here is an open type sprouter builty ne sprouter builty. type sprouter buil throughout of extra heavy, tight coat gal vanized copper stee

—that spells service
A practical sprout
er for any poultry
man—made with si inan—made with si 15-inch square sprout ing pans and a dri pan. Each sproute will produce enoug egg yielding gree feed to care for 10

hens.
Shipped knocke
down to save freigh
charges and to insur delivery to you in th best condition. Eas: to set up and operate
Every poultryma
needs one if the bi
results are gotten.
sprouter is a mone maker.

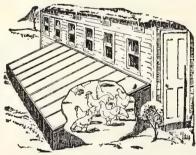
BOXES FOR FRESH EGG FOR THE MARKET TRAD

This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this bo a great convenience, as it obviates any mistakes in the counter and also avoids any breakage.

MASTER BREEDERS LIVE CHICK BOX

Shipped Crated to Save Freight.
Price Each Per Doze Chicks. Size, 11x 9x5½.....20c..... ...\$2.20 50 Chicks. Size, 18x11x5½...... 100 Chicks. Size, 22x18x5½...... 30c. 2.75 3.50

GLASS CLOTH MUCH CHEAPER THAN GLASS



GLASS CLOTH is strong fabric terated be a patented process in make it transparen weather-proof and water proof. It costs much less than glass and for man purposes is superior. Any one can put it up. admits abundant light which it diffuses ar scatters to all parts of the enclosure. It come in rolls 36 inches wide and any length.

The popularity of GLASS CLOTH has been sensational.

sensational.

HUNDREDS OF USES

GLASS CLOTH is ideal for such things as windows of poutry and hog houses and barns, for scratch sheds, broode houses hot beds, cold frames, storm windows and doors, winter enclosures for porches and sleeping porches, etc. Use in new buildings saves expense of glass and costly sasl Cheap and handy for repairs.

			-			-																- 1
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1	yard,	(9 sq.	ft.)										 	 						\$.4	1
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	yards,																					
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יט ב	yards	(900	sq.	It.)										 	 			 			32.U	м





BOSS

S

THE SHARPLES

Suction Feed Tubular Cream Separator

When you buy a cream separator you naturally want the best—the separator that will net you the greatest gollar for dollar returns on your investment. The SHARPLES guarantees greater returns than any other. It is the only cream separator in the world guaranteeing a clean skim at any speed and delivering a cream of the same density all the time. That means a far greater saving of butterfat (money) for you.

Moreover, the SHARPLES is the easiest to clean, to operate, and is the most reliable.

The famous Sharples Tubular Bowl has only one piece in it—no 30 or 40 diecs as you find in others; the supply tank is only knee high from the floor and you don't have to strain your back to pour in the milk. For your wife and your family it means less work and greater convenience, and for you it means the best separator investment you can make.

Sizes	Capacity	Shipping Weight	Prices
2S	300 lbs. per hour	$^{190}_{190}_{260}$	75.00
3S	400 lbs. per hour		85.00
4S	500 lbs. per hour		95.00
6S	700 lbs. per hour	$\begin{array}{c} {\bf 260} \\ {\bf 260} \end{array}$	110.00
9S	900 lbs. per hour		135.00
920	ood ros. per nour	400	133.00

G. T. CO'S PERFECTION SEPARATOR OIL

This Oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

1-quart	can	 	 	 	 	 	 .\$0.50
1/2-gallon							
1-gallon	can	 	 ٠.	 	 	 	 . 1.25
E 000 11 0 m	0.0.33						E 00

THE BOSS CREAM SEPARATOR

The Boss Cream Separator consists of a water vessel containing one or more milk vessels fastened together with our Patent Can Attachment. The Water Vessel is made of the very best quality of 26 gauge galvanized iron; and is provided with a large water faucet at the bottom and overflow pipe at the top.

flow pipe at the top.

The Milk Vessel is made of the best grade 3XXX 4AAAA Charcoal Tin Plate. It is oblong and deep with a sloping bottom, milk and cream will drain off rapidly. All seams are carefully soldered both on the inside and outside, and there is no chance whatever for milk to lodge and sour. All milk vessels are coated with Aluminum which is the best rust preventative known.

					3	Height	Width	Weight		
0.	1—	2 1/2	gal.	milk	vessel	18 in.	13 in.	14 lb.	\$ 7.	20
0.	2				vessel		15 in.	17 lb.	8.	00
0.	3				vessel		17 in.	20 lb.	8.	80
0.	4	8	gal.	milk	vessel	24 in.	18 in.	22 lb.	9.	60
0.	5-1	.0	gal.	milk	vessel	28 in.	18 in.	24 lb.	10.	80

The Twin Boss is especially adapted for farmers and dairymen who get more than 10 gallons of milk at a milking. A milk vessel that holds more than 10 gallons is hard to handle and will not produce as good results as smaller ones.

We would also recommend The Twin Boss to those who prefer a Separator with two milk vessels, so that one can be used in the morning and the other in the evening. This semethod has many advantages over the Separator with the set single milk vessel.

No.					Weight
22 two 2 1/2	gal. milk vessels	18 in.	24 in.	13 in.	27 lbs. \$14.40
24 two 4	gal. milk vessels	20 in.	30 in.	15 in.	33 lbs. 16.00
26 two 6	gal. milk vessels	22 in.	30 in.	17 in.	38 lbs. 17.60
28 two 8	gal. milk vessels	24 in.	30 in.	18 in.	41 lbs. 19.20
210 two 10	gal. milk vessels	28 in.	30 in.	18 in.	46 lbs. 21.60



THE BOSS

VENTILATING AND AERATING CREAM SEPARATOR

In the Boss Dilutors or Water Mixers the milk and water is mixed together or, in other words, the water is pounced right into the milk so as to chill it instantly and cause the cream to raise in about one hour. In ordering a separator of this kind, be sure and order one that will hold twice the amount of milk that you wish to put into it, so as to make allowance for water.

NoS	izes				Pr	ices
		holds			milk\$	
7-12	gal.,	holds	6	gals.	milk	5.60
816	gal.,	holds	8	gals.	milk	6.40
9 ')()	gal.,	holds	10	gals.	milk	7.20
10-24	gal.,	holds	12	gals.	milk	8.00

TRIPLE BOSS



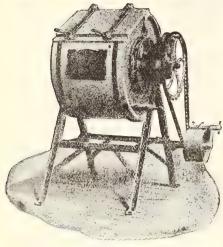
Too much can hardly be said in favor of the Triple Boss. It is fast getting to be our best seller and from all indications is the machine of the function. ture. With two milk vessels, one for the morning's and one for the evening's milk, a cream can to keep the cream ir the best condition for making first-class butter

back of the cream can to set another vessel. in which to keep the butter during hot weather, it is certainly all that one can desire in the line of a Cream Separator.

								нι	Lgt	w.tu	VV U	
No.			Gallo:	n		Gallon	L	in.	in.	in.	lb:	3.
32	two	2 1/2	milk	can,	2 1/2	cream	can,	18	24	13	30	\$16.00
34	two	4	milk	can,	3	cream	can,	20	30	15	37	17.60
36	two	6	milk	can,	3	cream	can.	22	30	17	42	19.20
38	two	8	milk	can.	4	cream	can,	24	30	18	45	20.80
310	two	10	milk	can,	4	cream	can,	28	30	18	50	24.00



MINNETONNA HOME CREAMERY



CHURNS THE BUTTER AND WORKS IT.

The Minnetonna process of churning is the most efficient method of agitating the cream during churning yet discovered. It works on the same principle that is used in some of the most modern and approved big creamery churns.

Style No. 1-H hand-power plant; churning capacity, 12 to 15 gallons; working capacity, up to 25 pounds butter.

The style No. 1-H is a very good size for dairy farmers wanting to make butter once or twice a week by hand, and having from five to fifteen cows.

No. 1 H. P. Minnetonna Home Creamery; hand and power. Churning capacity, with barrel half full, 12 gallons. Working capacity, 3 to 20 pounds. Can be belted to your gasoline engine. Pulley, 8 x 2½ inches. Speed, 200 R. P. M. Floor space required, 2 ft. 8 in. x 2 ft. 7 in. Shipping weight, 210 pounds.

IT WORKS THE BUTTER PROPERLY AND OUICKLY

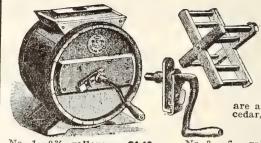


Cross section view of Minnetonna Home Creamery, showing how the butter is worked between two rolls.

Here is another feature wherein the Minnetonna is away ahead of the old-fashioned farm churn. The working is done in the barrel after the churning and washing are finished. The butterfat particles are all gathered together and thoroughly worked between the main roll in the center of the barrel and the small idle roll and the smallidle roll at the end of the basket. The main roll revolves when the working gear is thrown into place. The whole job is done with a few revolutions of the barrel barrel.

	Factory	Churning Capacity With Drum Half Full	Butter Working Capacety	Shipping Weint	Style	Prico
	No. OMB 1 H.	No. OMB 12 Callers		195 Ilis.	Hand Opera- ted	\$60.00
Minnetoma Home Creamery	No. CMB 1 H. P.	12 Gallons	3 to 20 lbs	216 lbs.	Hand and Power	\$70.00
	No. OMB 2 H. P.	20 Gallons	5 to 40 lbs	250 Ibs.	Hand and Power	\$75.00

CEDAR CYLINDER CHURN



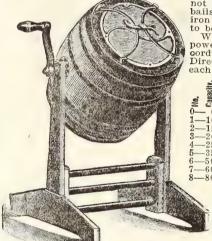
a number of Cylinder Churns on Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

There are

gallons....\$4.40 gallons.... 5 20

gallons....\$6.10 -101/2 gallons.... 6.95

Baltimore Favorite Churn



It is made of thoroughly It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The bails are fastened to the iron ring, where they need to be fastened.

tron ring, where they need to be fastened. We furnish pulleys for power. Prices extra, ac-cording to size desired. Directions for using in

each Churn.

List \$12.32 13.96 \$7.70 8.15 15.20 $-20 \\ -25$ 16.94 10.60 21.56 13.50 24.44 15.30 26.75 -50 30 30.60 43.60 48.86 69.72

12-inch Single Pulleys with Trunnions for above List, \$7.00. Retail, \$4.25. Pulley only. List Price, \$4.00. only. List Price, \$4.00. Retail, \$2.50. Trunnion only. List, \$3.00. Retail, \$1.75.

Cotton Pads for Sanitary Milk Strainers

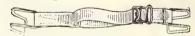
These pads are cut round to fit in the strainer and are a necessity in producing clean milk.

They fit the Sanitary Strainer, as listed on page 169.

\$2.00

Perfection Anti-Cow Kicker

No Chain or Cutting-Edge Parts to Lacerate, Bruise or Blemish the Cow's Leg.



The grapple or hook parts are made from a special size round steel, so shaped and arranged to prevent torturing or injuring the animal's leg.

Perfection Cow Tail Holder

Will not annoy or excite the cow. Put on in a few seconds and taken off in less. Impossible for animal to switch when tail is placed between the springs.

Aseptic Milking Tubes

FOR COWS WITH SORE TEATS.

Insert one in the teat and the milk will flow.



Plain Tube.

GRIFFITH @ TURNER CO



CHAMPION AUTOMATIC MILK COOLER-AERATOR

To Operate—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the better. It can be used in the strongest wind without a drop being blown away. Use very cold water. Use a cloth or metal strainer over the top of milk receiver. Capacity of Milk Receiver of Dairy. 10 to 25 cows 25 to 50 cows 50 to 100 cows 2..... 18 quarts 34 quarts 52 quarts

Takes	Our Special
No. Care of	Price.
2 3 milkers	\$ 9.25
3 5 milkers	11.00
4 8 milkers	13.75



8-qt. **\$6.90** 3-qt. \$3.35 4-qt. **\$4.10** Prices...... 2-qt. \$5.20

OW BALL" FREEZER



Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The consequence action of

scrapers. The con-tinuous action of the can and two beaters moving in opposite direc-tions keep the cream ever chang tions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velrety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

Sizes		 . 2-qt.	3-qt.	4-qt.	6-qt.	8-qt.
Retail	Prices.	 \$3.40	\$4.05	\$5.00	\$6.30_	\$8.10



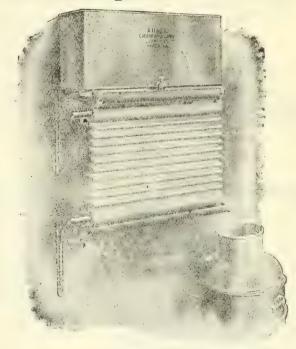
SHAW'S CALF WEANERS

The SHAW'S CALF WEANER is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

Prices: No. 1, 50c. No. 2, 65c. The SHAW'S CALF WEANER is

No. 3, 80c.

Reid Corrugated Milk Cooler



The Reid Corrugated Cooler is made of non-rusting or corroding material. The corrugations or cooling surface are of heavy tinned copper. The heads are made of castings of solid manganese bronze, which is the strongest tin and copper alloy made. The sheets are sweated to the heads and the inlet and outlet are made of seamless tinned brass tubing. The top and bottom troughs are made of tinned copper. The ends are of tinned brass. There is absolutely nothing about the body of the cooler to rust or wear out.

The standard reservoir is made of tinned steel with a sanitary removable plug faucet. If desired, a tinned copper reservoir can be furnished.

		Cooling capacity in	of	Capacity of	
		gals. per hr.	body	reservoir	Price
No.	1	45	12 in.	$5\frac{1}{2}$ gals.	\$31.50
No.	2	55	15 in.	8 gals.	35.00
No.	3	65	18 in.	9 gals.	38.00
No.	4	. 80	21 in.	11 gals.	43.00



Aluminum Scoops

Made of pure aluminum, cast in one piece, Light and convenient—Absolutely indestructible. Our Special Price. No. 1—Size, 4x11 inches, each..... 5x12 inches, each... 5½x14 inches, each. Set... \$1.45 1.80



RICE'S CALF WEANERS

ALSO PREVENTS COWS FROM SUCKING THEMSELVES.

		Calves.		.50
No	2—F o r	Heifers	Retail	

Price.... 3-For Cows. Retail Price..... 1.00

GRIFFITH @ TURNER CO





Reid's Self-Gauging Butter Printer

Prints butter very neatly and quickly. Weighs into pounds or half pounds as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square. Both pound and half nound combined. \$20.00

pound combined. \$20.00 Either pound or half pound 15.00 Extra for initials and

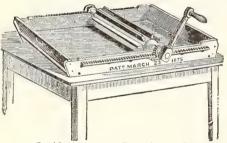
monograms

Lafayette Butter Printer



This is also self-This is also self-gauging. Intended for use in cream-eries, but more es-pecially for re-printing. Very sim-ple and handy. Either pound or

table, \$33.00.
Either pound or half pound, without table, \$15.50.
Extra for initial or monogram, \$1.50



Reid's Butter Worker

Inside	Capacity.	Weight.	
No. Measurement	Pounds.	Pounds.	Retail Price
4-14x24x2½ in.	10	20	\$12.00
3—17x27x2½ in.	20	25	14.00
$2-20x36x2\frac{1}{2}$ in.	30	29	16.50
1—23x36x2½ in.	50	45	19.00
Large size espec	ially designed	for mixing,	reworking

coloring, or creamery use Inside Cap Capacity, Weight. No. Measurement 0—23x37x3 in. 00—23x56x3 in. Pounds Pounds Retail Price. 6.0 \$27.00 30.60 000-23x72x3 in. 150 100 39.60

When desired, we can send legs along with any size machine for \$5.00 extra, which can be set up after arrival at destina-

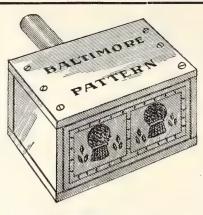
Polished Maple Bowls



Made from Hard Maple turned from a solid block, Every Bowl is first quality, smoothly finished and polished.

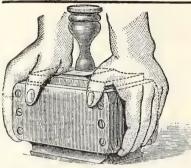
Bowls, 15 in...\$1.00 Bowls, 17 in... 1.75 Bowls, 19 in... 2.40

SPECIAL CARVED DESIGNS



Baltimore Pattern, Hand-made Butter Mould

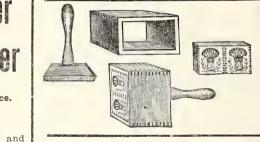
This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. ½ 1b Sheaf of Wheat Print, \$1.25; 1 lb. Sheaf of Wheat Print, \$1.50. ½ lb. Special Print, Carved with Initial, \$2.50; 1 lb. Special Print, Carved \$1.50.



Extra Heavy Brick **Butter Mould**

Philadelphia Pat-tern, ½ pound .\$2.00 Philadelphia Pat-tern, 1 pound.. 2.00

Can furnish moulds to order with initials cut at an extra cost of \$1.50



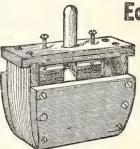
Butter

Mould

SEELEY

PATTERN

Furnished with Sheaf of Wheat. Movable block. ½ pound.65c. 1 pound.85c.



Economy Butter Printer

The Economy Printer is one of the most popular hand printers. It is of wood put together with brass screws, and has brass gauge screws at the top, making it self-gauging. With it butter may be printed very rapidly. Cutting the butter from the churn batch on the table, pressing the hopper full, leaving contents of hopper in a neatly formed block of butter which is pressed from the printer by pressure on the wood stem of block extending through the printer head block.

1/2 lb., complete, with sheaf of wheat block......\$2.25 1 lb., complete, with sheaf of wheat block...... 2.25

LADLES AND SPADE



No. 1 Butter Ladle 25c. 4x12 Butter Spade 15c.

8

GRIFFITH @ TURNER CO



BUTTER BOXES



These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in the center, which can be removed at will and the space utilized.

Capa	city Price.
20-pound	prints \$13.75
30-pound	prints 16.00
40-pound	prints 20.00
56-pound	prints 23.75
80-pound	prints 26.25
96-pound	prints 28.75
120-pound	prints 32.45



PELOUZE DAIRY SCALE

Graduated by Tenths of a Pound.
GUARANTEED ACCURATE

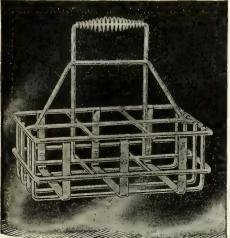
Made to comply with Departments of Weights and Measures. Large Circular Brass Dial, with distinct, black figures

Brass Dail, with distinct, black figures and graduations.

Patent adjustable hand. First get exact weight of empty pail, then loosen screw on hand and turn back to zero. The results then obtained is the exact contents of the pail.

Very attractive and durable.

MILK BOTTLE BASKET



These baskets are made from the best grade of flat and steel wire. The welded joints make them the same as one piece, hence, all strain and shocks are distributed over the entire

No rivets being used in its construction, there is no part to get loose and at the same time is not weakened by rivet holes.

It has no crevices in which dirt can collect consequently it is easy to clean and sterilize.

6 bottles...\$1.75 8 bottles... 2.00



DOMINION DAIRY AND HOUSEHOLD CLEANSER

An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either hot or cold water, and rinses off perfectly clean without leaving a soapy scum. **Price:** 5-lb. bag, **35c.**; 25-lb. bag, **35.**

MILK BOTTLES

These bottles are made by a factory devoted especially to bottle making. The glass is clear flint. This makes a bottle that the milk shows up to the best advantage. They are made to stand the rough usage of the street delivery and collection on routes, and washing and sterilizing in the dairy house. These bottles are made with a long neck, and will show a deep cream line. Prices named are for bottles F. O. B. Baltimore.

If you desire name plates, same can be put on any order of five gross or more of one size, at an additional cost of \$2.50 for each name plate. Each size bottle will require a different plate. On second orders, there wil not be any extra charge for lettering.

One dozen	Quart Pint 8 1.10 8 .80	% Pint ½ Pint \$.70 \$.70
One gross	10.50 8.00	6.50 6.50
Two gross and over		6.45 6.45 6.40 6.40
Fifteen gross and over		6.35 6.35



The great convenience of this cap will be appreciated, as it is made with a lift to take the cap out. This prevents spilling the milk, or having to use anything to pry it out. These caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine.

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pound, and 10x15 for two pounds. Price, 30c. per pound; by mail 40c.; 6 pounds, \$1.75.

DAIRY SALT

25-pound	sacks.							 									8 .7	5
50-pound	sacks.					i	ì		 į	 					ĺ	Ċ	1.20	Ö
100-pound	sacks																2.04	



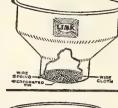


NEW YORK Pattern Milk Cans

Furnished with our new Umbrella Cover, with seamless rim welded to top. The malleable iron handle on the Cans we stock are stationary, making the Can Handier to handle and Noiseless in

30-quart	***************************************	0
	5.2	5

Special Prices in Quantities.
Our charge for marking name on can will be 40 cents each. Permit Plate 15c.



NEW SANITARY

strainer is made from heavy



REGULAR STRAINERS These milk strainers are made of extra heavy tin and brass wire cloth. They are warranted not to rust.

				P	T	i	C	8	s.								
3-quart																\$1.15	,
6-quart																1.25	,
0-quart											٠					1.65	,



Sanitary Fish Mouth **Dairy Pail**

Approved and recommended by State Dairy Inspectors. Used exclusively by many large and practical Dairymen. Made from finest charcoal plate. One piece retinned top or hood. Steel Bail, Reinforced Ears. All seams sanitary soldered inside and out.

	FILL	. 4. 44	
IXX.	HEAVY	CHARCOAL	
		\$2.00	
14-quart		2 .1 5	,



Dairy Strainer Pail

Coppered Bail. Natural finish Bail wood, Reinforced ears Handle near botton to use when pouring from pail.

IXX. CHARCOAL PLATI	IXX.	CHARC	JAL	PLATE
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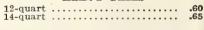
4-quart		٠										•	٠		•			•			٠		\$1.60		
---------	--	---	--	--	--	--	--	--	--	--	--	---	---	--	---	--	--	---	--	--	---	--	--------	--	--



MILK PAILS

These pails are extra heavy block tin, heavy steel bail, coppered. Rein-forced ears with four rivets, all sani-tary soldered. Should not be confused with cheap tin pails.

EXTRA		E		Ε	A	١	V	¥	1	K	Σ	ζ,	I	3.	L	C)(C	В	ζ	7	.1	N	
12-quart																								
14-quart	٠															•	٠	۰	•	۰	٠		.95	j
			I																					
12-quart																							.60)





Extra Heavy Galvanized

Made from extra heavy sheets, heavy steel bail, strong ears, are Hot Dipped Galvanized after making, practically indestructible. 12-0 14-0

	١	46	12	w	w	1		al	v	2	n	7	e	d	1	P,	ai	k								
quart	٠		٠	*	٠	٠	٠	٠			٠	٠	٠	۰	٠	٠	•		•	۰		۰	۰		.70	
quart	٠				٠	٠	٠	٠		٠	۰	٠	۰	۰	۰		•	٠			•	•	•	.\$.65	

adju

	i	3	ì	y	1	u	al	V	a	N	Z	6	a		ť	đ	k	5				
12-quart												÷							۰		.\$.55
14-quart		٠			٠		٠	٠	٠	٠	٠	•	۰	٠	•		٠	٠	٠	٠		.60

Iowa Pattern Milk Cans

	PATTERN		
32-quart		 	.3.70
40-quart		 	.3.90

Special Prices in Quantities.
Our charge for marking name on can will be 40 cents each. Permit Plate 15c.



Milk Cans or Kettles

Finest charcoal plate. Seamless cover and neck. Bottom reinforced with steel band. Heavy steel bail. Sanitary soldered. Full capacity.

2-quart													
4-quart													
6-quart													
8-quart													
12-quart													
16-quart													
20-quart													



These pails are made from 5A Charcoal ate, Mirrow Finish, are very strong and

We furnish them in two sizes, with or without Gauge or Faucets and with outside

14		Without	Gauge	and	Faucet.			.\$1.30
20	Qt.	Without	Gauge	and	Faucet.		: •	. 1.50
20	Qt.	With Ga	uge and	ı ra	ucet	• •		. 3.75

Double Bottom

Heavy reinforced Galvanized Ce-



WELL BUCKETS

Crown, \$1.00.



LISK

Well Bucket **Pulleys**

....\$.90 1.00

Wooden Stable Bucket

J. I. C. Cedar—Heavy ironbound stable bucket. Each......\$1.50

GALVANIZED STEEL BASKETS



With Reinforced or Double Steel Bottoms.
Bushel—A 101— 82.25 Flach



UTILITY STEEL BASKETS GALVANIZED.

With Bale or Side Handles, ½ Bushel, \$1.00; 1 Bushel, \$1.25; 1% Bushels. \$2.00.

OAK BASKETS.

SPLIT BAMBOO AND OAK BASKETS.

	Bushel (iron bound)	
1 1/2	Bushels (iron bound)	1.75
2	Bushels (iron bound)	2.00
	,	
	FLAT OAK SPLINT BASKETS.	

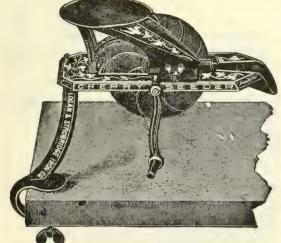
	Bushel														
1/2	Bushels	(iron	bound)		 	 			 					 	1.50
	Bushels														
		,	,												

DUST PROOF COAL ASH SIFTER

This Ash Sifter saves coal and is dust-proof. It is made from extra heavy galvanized sheets heavily wired and braced and equipped with a cover at top which prevents the dust from escaping. The revolving cylinder is made from extra heavy galvanized wire mesh, operated by handle or crank equipped with wooden grip. The lip at the end of sifter allows the coal to drop directly into the hod. A strong hook holds the hod securely in place.

PRICE ... \$3.50.

CHERRY SEEDERS



These cherry seeders are so constructed that they can be adjusted for different size cherries. They work very rapidly

and do not tear up the fruit.

The No. 2 Seeder is made as shown in the illustration.

The No. 1 Seeder has four legs which screw to the table.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



CEDAR AND OAK **MFASURES**

Each.
hoops\$.80
¼-Peck, flat
hoops60
Peck & 1/2-Peck
comb., wire hoops. 1.20
Peck & 1/2-Peck,
flat hoops90
½-Bushel, wire
hoops 1.60
½-Bushel, flat
hoops 1.20

WITT ASH CANS

CARBACE CANS



GARBAGE CANS
No. 8 With Bale Handles..\$2.05
No. 9 With Bale Handles.. 2.25
No. 9 ½ With Bale Handles 2.50 ASH CANS

No. 10 With Side Handles. 3.00 No. 1 With Side Handles. 4.30 No. 2 With Side Handles. 5.00



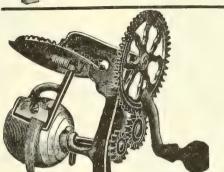
5¼ Gallons 6¼ Gallons 8¾ Gallons 10% Gallons \$1.40 1.50 1.65 1.80 2004 8005 6812 6815 LIGHTER CANS 0.0 1.05 1.25 514 Gallons 614 Gallons 1.50 04 1.75

THE EACLE SLAW CUTTER

Slaw Cutter and Vegetable Slicer is the speediest, handiest and most serviceable cutter on the market for cutting Slaw, Kraut, Noodles, Cucumbers, Potatoes, Onions, Parsnips, Pie Plant, Beets, Bananas, Turnips, Vegetable Oysters, String Beans, Pineapples, Saratoga Chips, Etc.

The cleanest, quickest and nicest way to prepare fruits and vegetables that require cutting is to use an "Eagle" Slaw Cutter and Vegetable Slicer.

PRICE



1898 TURN-TABLE PARER

A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes leaving ample room for placing the apple on the fork. Does not core or slice. Pushoff is automatic. Price, each, \$1.25.

White Mountain Parer and

MILK TESTERS AND GLASSWARE

WAGNER PRECISION BABCOCK GLASSWARE

For testing milk and its products, in accordance with specifications formulated by the Bureau of Standards, Washington, D. C., and adopted by the Official Dairy Instructors' Association. The markings are unusually exact, the lines being sharp and uniform. All the markings are permanent being filled with a red enamel which will not wash out.

P1000		Milk Test Bottles Each				
P1005		Cream Teat BottlesEach				
P1011		Cream Test BottlesEach		.35	Doz.	3.75
		Skim Milk Test Bottles Each		.75	Doz.	8.00
1026	, ,	Acid MeasuresEach	L	.15	Doz.	1.50
1019	17.6	c. c. Milk PipetteEach	ı	.30	Doz.	3.00
1023	. 9	c.c. Cream Pipette Each	ı	.30	Doz.	3.00

THE BABCOCK TESTER

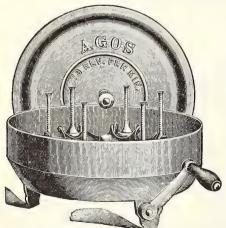
No. 4-2 Bottle size milk only	
No. 5-2 Bottle size milk and cream \$8	
No. 6-4 Bottle size milk only\$8	
No. 7-4 Bottle size milk and cream\$9	
Shipping weight about 17 pounds.	
All Testers are equipped	
with full set of glassware for testing milk or	
milk and cream;	

also furnished with brush and

bottle of acid.

THE "AGOS" BABCOCK MILK TEST

CAST IRON FRAME



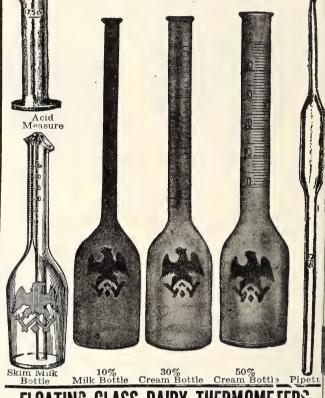
The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlson" patent. With each Tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. They are made in five sizes, as followed. ing. They are made in five sizes, as fol-

6	Bottles.		\$19.00
	Bottles.		
10	Bottles.		21.00
12	Bottles.		22.00

SULPHURIC ACID FOR

9-Pound Bottles. Larger quantities, price on application.

TESTING





8-inch. Price, 35c. each.
lange Dairy Thermometer, stands boiling water
\$1.25 each
Milk Hydrometer, No 2085 (Quevenne), \$1.50
Add 8 cents each if by mail 8-inch Flange



WELL'S & RICHARDSON CO.'S

BUTTER COLORING

Will not color the buttermilk; w never turn rancid; gives the brighte and best color; butter never becom reddish; perfect economy in us It is cheaper than any other colorin

Dandelion Brand Butter Colorin is guaranteed to be purely vegetable and that the use of same for coloributer is permitted under all Foo Laws—State and National

Put up in four sizes Small size to color 500 lbs....\$

Medium size to color 1,250 lbs

Large size to color 2,800 lbs... 1.

35c. and 65c. size by mail Add 15c. for Postage and Packin



SHARPLES SEPARATOR BRUSHES



o. 1-Bowl	Brush			 											 				. \$0.35
o. 2—Bowl	Brusn			 											 				35
o. 3—Bowl	Brush			 	٠	٠.									 				35
0. 4—Bowl	Brush		 ٠	 			٠.	٠	٠.		٠	 ٠	٠	٠	 	٠	٠	•	35
pout Brushe	S		•	 				٠		٠.	•	 •	•	٠		•	•	٠	00
ed Tube C	leaner Brus	1.		 															10

HAND BOTTLE BRUSHES



No. 86—Prepared Stiff Bristle; brush part, 2¼ inches diameter, inches long; hickory handle, ½-inch in diameter, 9 inches longozen, \$6.00; each, 55c.

MILK CAN BRUSHES

Made of an excellent grade of durable fibre, very full, with solid cks. Unquestionably the best and most serviceable Milk Can rushes on the market.



No. 416—Stiff Palmetto; brush part, 4x5 inches. Dozen, \$4.50. Each, 40c.

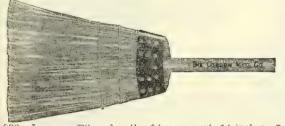


0.

No. 08-Stif? Falmetto Fibre; length on face, 9 inches; width on face, 5 inches. Dozen,

\$5.75; each, 50c.

FACTORY, WAREHOUSE AND RAILROAD BROOMS
These brooms are made with heavy steel bands or heads, securely liled together. By this method of construction it is impossible r the brooms to work loose on the handles. They will last nger and give better service than the ordinary corn broom.

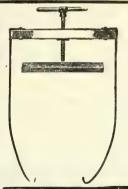


223-Japanese I	Tibre length	of broom	nart 1	4 inches	00.3
221—Japanese I	Tibre: length	of broom	part. 1	6 inches	.75
					1.00
200—All-Corn H	ieavy waren	ouse proof	11		1.00
211-Corn and I	Romboo Brow	2 222			1.00
ZIICoin and I	Daimboo Dro	JIII			1.00

STABLE OR PUSH BROOMS



These brooms are of the highest quality. Made with heavy

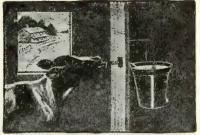


Improved Barrel Headers

The Nos. 1 and 2 Barrel Headers have the followers attached to the screw, which device is patented. The follower attached thus can revolve, and is taken up with the screw after the barrel is headed. The side clamps are steel and fastened with two bolts.

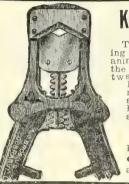
Price.

				1-A,			_
SC.	rev	W				 	 \$4.00
No.	2,	with	1-inc	ch scr	ew	 	 4.0=
IN O.	о,	with	16 ve			 	 3.50



Keystone Calf Feeder

A simple device, based A simple device, based on natural laws, for feeding calves without teaching them to drink. The food is sucked through a rubber nipple and is mixed with the saliva and the digestive juices in a natural way. This feeder will prevent scours. It will make the calves fat and healthy. Used by more than 30 agricultural colleges.



Keystone Dehorning Clipper

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twsting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

Clipper with leader and rope, extra blades and screw, fully warranted. Our Special Price, \$18.00 Clipper alone; Our Special Price, 316.00,





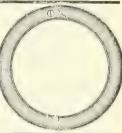
PAIR

RILL

2-in. Copper Rings, 45c.

3-inch Copper Rings, 50c.

HEAVY BULL RING, \$1.60





40c

HILL'S HOG

PIG RINGS.....20c. SHOAT RINGS....20c. HOG RINGS...20c. Box



RANNEY REFRIGERATORS

These Refrigerators are constructed with an inside case of odorless and tasteless lumber, matched and clamped together, well nailed and glued, and fastened to hardwood cleats, making it a thoroughly air-tight strong cabinet in itself. The outside case is of solid hardwood lumber, and is nailed and glued to the cleats which bind the inside case, thus making it one of the strongest and most durable Refrigerators ever built. The ice rack is made of galvanized steel bars, welded together and most common sense ice rack made. The shelves are of genuine steel wire, woven on a heavy steel wire frame and heavily tinned. They are finished in three coats of best quality of filler and waterproof varnish, giving them a gloss finish that looks well and that will wear. The inside construction is neat and sanitary, containing many features covered by patents. These add much to the convenience of the user.

"Lapland Monitor" Refrigerators WHITE ENAMELED Selected Ash Lumber—Golden Oak Finish



Nos. 101½E and 103½E. Open.

No. Ice Cap. Sh. Wt. Wth. Dpth. Ht.

10s. lbs. in. in. in.

101½E 120 195 32 19½ 48

Ice Compartment. . . 13¼ 14½ 18½

Small Provision Comp.13½ 14¾ 10

Large Provision Comp.13½ 14¾ 31

List Price, \$62.00. Retail Price, \$43.40

103½E 130 240 38 20½ 51

Ice Compartment. . . . 16 15¾ 24½

Small Provision Comp.16½ 15¼ 10½

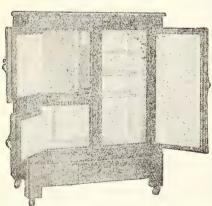
Large Provision Comp.16½ 15¼ 37

101½E has three provision shelves only.

List Price, \$70.25; Retail Price, \$49.25

THE RANNEY SEAMLESS "WHITE CCLLAR" PORCELAIN REFRIGERATOR

Selected Ash Lumber—Golden Oak Finish—Heavy Quilted Sea Grass Insulation



No. Ice Cap. Sh. Wt. Wth. Dpth. Ht.

1bs. lbs. in. in. in.

861 80 232 334 18½ 43¾
Ice Compartment..... 14¼ 13 15¾
Small Provision Comp. 14½ 13 10½
Large Provision Comp. 12½ 13 27½
List Price, \$70.00. Retail Price, \$49.00
871 100 257 34½ 19½ 47
Ice Compartment..... 14½ 14 18⅓
Small Provision Comp. 14½ 14 11¼
Large Provision Comp. 12½ 14 11¼
List Price, \$83.00. Retail Price, \$58.10

Larger Size Refrigerators, Price On

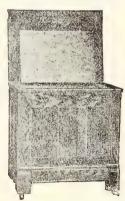
Application

THE RANNEY "SUFREME" REFRIGERATOR

Seamless "White Collar" Porcelain Lining—Selected Ash Lumber—Golden Oak Finish—Heavy High-Grade Corkboard Insulation

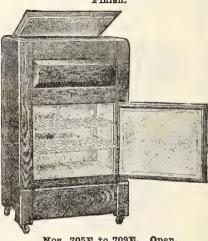


Double Lid Ice Chests
Selected Hardwood Lumber, Mostly Ash
Golden Oak Finish.
Lined with Galvanized Iron.



No. Sh. Wt. Wth. Dpth. Ht. lbs. in. in. in. in. lass 274 20 30 174 List Price, \$24.00. Retail Price, \$16.80 777 142 22% 21 174 151 Price, \$28.85. Retail Price, \$20.25 No. 770 has single lid only. 679 175 38½ 23% 35¼ Inside Dimensions....32¼ 18 23 List Price, \$41.00. Retail Price, \$28.70 681 206 48 24¼ 34 Inside Dimensions....43 17% 23 List Price, \$50.0. Retail Price, \$28.50 List Price, \$50.0. Retail Price, \$52.70 Each 17 175 28.50 List Price, \$50.0. Retail Price, \$52.70 Each 17 175 28.50 List Price, \$52.50 List Price, \$52.70 Each 17 175 28.50 Each 17 1

"Radium" Refrigerators
WHITE ENAMELED
Selected Ash Lumber—Golden Oak



Nos. 705E to 709E. Open.

No. Ice Cap. Sh. Wt. Wth. Dpth. Ht.

1bs. lbs. in. in.

705E 75 155 25½ 18½ 43

Ice Compartment.... 18¼ 13½ 10

Provision Compart... 21 14 164

List Price, \$36.00. Retail Price, \$25.2

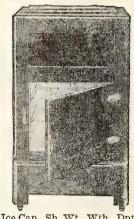
709E 110 195 30¾ 20 47

Ice Compartment..... 22½ 14½ 11½

Provision Compart... 25 15 19

List Price, \$49.15. Retail Price, \$34.5

Ashwood Refrigerators
Selected Ash Lumber—Golden Oak
Finish.
White Enamel Lined

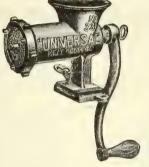


GRIFFITH @ TURNER CO.

The Universal Meat Chopper

The Universal Meat Unopper
The Universal is the most perect meat chopper on the market.
The feed screw is so constructed
hat it feeds the meat to the knives
without mashing it. The knives
work against the plate giving a
cood clean cut, producing the best
rade of chopped meat. The
rinders are made in three numners. The No. 331 has a plate
hat fastens to the table, as shown
n illustration. The No. 333 has
n arm that clamps to the table.
The No. 304 has a plate like the
fo. 331. These grinders are all
leavily tinned and will not rust.
To. 35.00

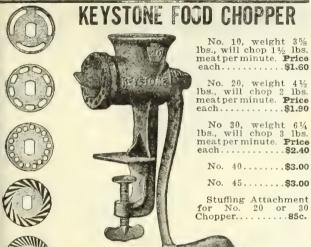
333..... 5.50



THE UNIVERSAL FOOD CHOPPER

Chops all kinds of meat, raw or cooked, and all kinds of ruits and vegetables—in fact, everything that is ordinarily hopped in a chopping bowl—into clean-cut, uniform pieces, ne or coarse, as wanted, without squeezing or mashing, and great rapidity

No. 0, Small Family three cutters......\$1.85



SLIDING KRAUT CUTTER



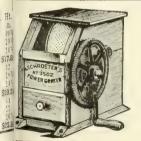
Sliding Kraut Cutter with Two, Three or Four Knives.

 -2 Knives, 8x26 inches
 \$2.50

 -3 Knives, 8x26 inches
 2.75

 -3 Knives, 9x30 inches
 3.75

 4 Knives 131/x40 inches



HORSE RADISH GRATER

PRICE .\$35.00



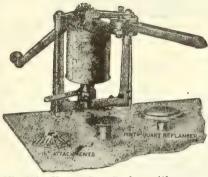
PRICES.

No. 44—4 quarts. \$10.50
No. 66—6 quarts. 11.50
No. 88—8 quarts. 12.50
This Machine is an unexcelled Lard Press, an equally good Sausage
Stuffer, and is also extensively used for pressing the juices from fruit
for making

for, making jelly, etc. The Universal Steel Press" has many

Press" has many advantages over the old style cast-iron press. It is unbreakable, rigid and strong, and is more easily handled because it is lighter.

VIRGINIA HOME CAN SEALER

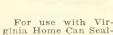


Virginia Home Can Sealer with can ready for sealing—Seals, Opens and Re-Seals. Enables you to use same Cans for next season.

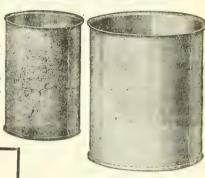
With this Virginia Home Can Sealer and Virginia Sanitary Tin Cans, it is as easy and cheaply for you to do just as good canning in your own kitchen as if you had the finas if you had the in-est canning plant in the world. In fact, you would have as good equipment only on a small, inexpen-sive scale with the additional advantage of having absolutely fresh-picked products to start with. It is far to start with. It is far more economical to use Sanitary Tin Cans than it is to use glass jars for your canning. You can buy 100 Virginia Sanitary Cans for the price of two dozen glass jars.

\$21.00

SANITARY TIN CANS



No. 2...... \$.05 .07





COOK STOVE FRUIT DRIER

To meet the demand for a small Drier, suitable for use on any ordinary room, kitchen, cook or gasoline stove, we offer the U. S. Drier. It is a very simple, economical, efficient and convenient arrangement, and for farmers use just what is wanted, a durable drier at a reasonable price.

Dimensions, 26 in. high, and takes up space on stove, 21x15 inches.

OUR SPECIAL PRICE, \$7.50

Retail Price.



We always ship furnaces without firepot for coal unless otherwise specified. For wood fuel no firepot or grate is required, but for coal it is necessary to use firepot.

FIREPOT, Retail Price, \$7.50

HUDSON BOILER AND FEED Heavy cold rolled steel furnace; extra large feed door; wrought

Heavy cold foiled steel furnace; extra large feed door; wrought fron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside, thus retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime and sulphur.

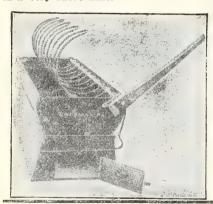
No. 2—40 gallons. No. 3—50 gallons. No. 4—60 gallons. No. 5—70 gallons.	Actual Capacity. 24 gallons. 36 gallons, 42 gallons. 54 gallons. 67 gallons.	Circumference of Furnace. 84 inches. 93 inches. 95 inches. 108 inches. 114 inches.	Shipping Weight. 150 pounds, 190 pounds. 240 pounds, 280 pounds, 330 pounds, 380 pounds.	21.75 24.0\ 26.75 32.75
Usual Rating No. 1—30 gallons, No. 2—40 gallons, No. 3—50 gallons, No. 4—60 gallons, No. 5—70 gallons, No. 6—80 gallons	Actual Capacity. 24 gallons, 32 gallons. 40 gagallon 48 gallons. 56 gallons. 64 gallons.	Furnace Pri \$1 1 s. 1		36.25 Vettles Only, Price, \$11.00 12.15 14.00 15.75 19.00 22.20

STEEL HOG SCALDER AND COOKER

It takes the lead of anything on the market. When not used for scalding, can be used for feed cooker, boiling spray material, or for dipping sheep, can also be used for watering steel.

This outfit will save half of the time, and most of the hard labor in connection with Hog Killing, and will pay for itself

in a very short time.



Plain Scalder does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and firebox complete. Shipping weight, 425 lbs.

Plain Scalder, with legs, 6 ft. x 30 in. x 18 in. deep. Our Spe-cial Price, \$27.00.

Fire-box with 5-inch pipe hole. Our Special Price, \$15.00

Dumping Rack with lever. Our Special Price, \$15.00

Scalder complete. Special Price,

IMPROVED KETTLE



This Kettle Range is made to ac-commodate commodate any kettle a farmer may happen to have. Any copper or iron kettle up to 40-gallon capacity can be used. The largest

opening, when all the rings are off, is 25 inches, and the smallest is 12 nches. The outside

of the fire-box is made

box is made of heavy steel plates and lined inside with castches wide and 24 inches long and supplied with grate and ash pit, and has ash pan so that ashes can be removed without use of shovel. Pipe opening for 6-inch pipe. Weight, 200 lbs.
Our Special Price, \$35.00. Lighter and cheaper Range with pot hole top and one ring. \$30.00.



IRON KETTLES

Capacity No. 4... 15 gals. No. 5... 20 gals. No. 6... 25 gals. No. 7... 30 gals.

Our

Special Price. 4....\$ 6.75 No. 7.50 9.00 10.50

FARMERS FAVORITE

PEED COOKER AND AGRICULTURAL BOILER

The top section or boiler, is made of heavy galvanized steel that will not rust, and is also provided with four heavy tinned malleable iron drop handler.

heavy tinned malleable iron drop handles.

The lower section or furnace is made with cast iron ends, and the center, or body, of heavy steel plate.

The door is extra large, which will allow large chunks and knots to be used without the labor of splitting.

They are guaranteed exactly as represented, both as to construction and capacity of boilers.

With this cooker you are not obliged to have a special brick foundation to make it safe, thus making it necessary anywhere, in the back kitchen, milk room, shop, wood house, cellar, hog house, barn, poultry house, or out of doors, with perfect safety. Wherever you want to cook food or heat water, set it up and use it.

The "Farmer's Favorite" is used for a great variety of purposes, such as cooking grain and vegetables for stock and poultry.

Heating water for scalding hogs and poultry, Boiling Spraying Mixture, Heating Water on Wash Day, Heating Water for Washing Dairy Utensils, Rendering Lard and Tallow, Boiling Sorghum, Heating Drinking Water for Stock.

Capacity Size Boiler Lgth. Fire Box List

Ca	apacit	V.		Size	Boiler	Lgth.	Fire .	\mathbf{Box}	List 1	HEAL
No. 1	25	gal.		22	2x22x12	2	4 in.		\$19.50	lear:
No. 2	36	gal,		22	$2x24x13\frac{1}{2}$	2	4 in.		20.00	Cy.
No. 3					2x30x14		0 in.		22.50	
No. 4	50	gal.		22	2x36x15	3	6 in.		25.00	Cyl
No. 5	75	gal.		22	2x48x17	4	8 in.		30.00	olve:
No. 6	100	gal.		22	2x60x17	6	0 in.		31.25	earir
	TOI	PPI	ATES	WITH	HOLES	FOR K	ETTI	ES		ment.
No. 1	Cook	er		\$3.75	No. 4	Cooker			.\$5.30	Dg TF
Mr. o	Clook	0.70		2 75	NT. F	Clooken			COE	8.1



All Double Door Heaters leasure 7 feet 11 inches from ase to register, but extension ipe telescopes, so as to fit ithout cutting, as low as 6 set 11 inches. Special measurements can be furnished to rder, when distance from asement floor to top of first cor is given oor is given.

INTERNATIONAL ONEPIPE HEATER

THE ONEPIPE or, as termed by many manufacturers, the "pipeless" heater is the most modern development of the warm air heating system, and we unhesitatingly recommend the INTERNATIONAL ONEPIPE HEATER as one of the most practical, durable and efficient heaters of this type on the market.

INTERNATIONAL ONEPIPE HEATERS are adapted to many city houses as well as to country homes. They are especially efficient in the square type two-story houses with open stairways. They are ideal for heating churches, stores, etc., because of the recirculating feature which takes the cold air from the floors. Because of their low installation cost they are frequently placed in summer camps and cottages that are occupied in spring and fall, and for weekend parties in the winter.

end parties in the winter.

The INTERNATIONAL ONEPIPE HEATER is simply a device for heating the air and causing it to circulate through the rooms. It is essentially the same as a regular INTERNATIONAL Warm Air Furnace—not a stove, but a furnace, properly designed to get the greatest benefit from the fuel burned, and all parts carefully mounted and fitted. Surrounding this are two castings, an inner and outer casing, and on top you can see the register.

This heater uses only the one large register, which is divided into two parts. It is a well-known fact—as old as nature itself—that air when heated expands and rises. As the warm air pours up through the central portion of the register it goes at once to the ceiling of the various rooms and floods the whole house with warmth.

This warm air displaces the cooler air, which falls to the floor and is then drawn down through the outer portion of the same register, between the outer and inner casings, and is then rewarmed and recirculated.

As the space between the outer and inner casings is always filled with the cooled air returning to be heated, an INTERNATIONAL ONEPIPE positively does not heat the cellar.

LIST PRICE, CAPACITY AND DATA

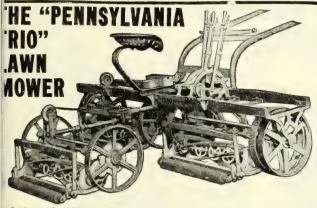
Number	List Price	Retail	Capacity	Diam.	Diam.	Diam.	SIZE OF RE	GISTER
		Price	No. of Rooms	Casing	Firepot	Smoke Pipe	Outside	Warm Air Pipe
*38—0 42—0 46—0 50—0	\$270.00 300.00 344.00 400.00	\$150.00 165.00 190.00 220.00	4 to 6 6 to 8 8 to 10 10 to 14	38-inch 42-inch 46-inch 50-inch	18-inch 20-inch 22-inch 24-inch	7-inch 7-inch 7-inch 7-inch	24-in.x27-in. 30-in.x30-in. 35-in.x35-in. 40-in.x40-in.	18-inch 22-inch 26-inch 30-inch

*The 38—0 size does not have coil opening.
Furnace Pipe Lengths 7 in. 50c.; 8in. 55c.

These sizes have single feed door.
Elbows 7 in. 65c.; 8in. 70c.

The Moto-Mower has all the desirable feaures of previous models. It offers efficient ower Mowing Service at a moderate cost. A twist of the wrist controls the power. he power from the engine is transmitted irect to the Cutting Reel, through Jack haft, chain and Sprocket, the most efficient acthod of drive known.

It will operate on hills and terraces, and runs an werage of eight hours on a gallon of gasoline.



Automatic Clutch. It is only necessary to lift the cylinders arrying the revolving knives to disengage them from the cars. The clutches are automatically operated by the lifting device. The cylinders immediately revolve when they are

gain lowered.

Wheels. The wheels are 18 inches in diameter and have a read of 2½ inches. They are fitted with automobile-type ball

Horse Mower 900.00

The machine is shipped assembled ready to go to work. Has a fine 4 Cycle valve in the head Motor. All parts accurately machined and ground. Splash Oil System is used, has no complicated parts in carbureter. мотоburetor. MOWER Lack of space prevents giving full description. Write for special cata log. Prices Of Mowers 27 in. \$285,00 \$185.00 GRASS CATCHERS inch \$5.00 DETROIT inch 5.50



A Small Mower of Large Capacity (with the Puller & Johnson

(with the Fuller & Johnson Motor)

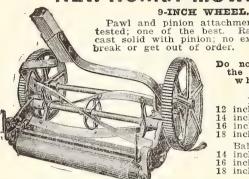
The Coldwell Model "L" Motor Lawn Mower and Roller, twenty-five inch cut, has been designed with a view of combining the extreme flexibility of the hand lawn mower with the large cutting capacity, rolling feature and other advantages and convenienes which can be obtained only with a motor mower. This mower is adapted for use on private lawns, parks, cemeterics, public grounds and for fine cutting on tennis courts and bowling greens.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

\$325.00

WHITMAN & BARNES

NEW NORKA MOWER



Pawl and pinion attachment thoroughly tested; one of the best. Ratchet Clutch, cast solid with pinion; no extra pieces to

Do not class with the chear low-wheel ma-chines.

	Regular.
12	inch\$ 8.15
14	inch 8.50
16	inch 8.75
18	inch 9.10
	Ball Bearings.
14	inch 10.30
16	inch 11.00
18	inch 11.60

LITTLE SHAVER MOWER

Low priced and good. 12 in., \$6.90. 14 in., \$7.30. 16 in., \$7.75

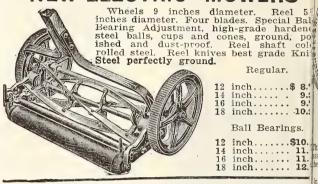


14 inch\$10 16 inch11 18 inch11 20 inch12	.25 .90
20 Inch 12	.50

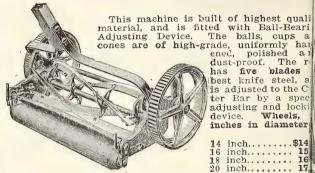
Ball Bearings.

	inch.		
	inen.		
18	inch.		 13.7
20	inch.		 14.4

ELECTRIC" MOWERS



DIAMOND SPECIAL BALL-BEARING MOWER



is adjusted to the C ter Bar by a spec adjusting and locki device. Wheels, inches in diameter

14	inch				. 9	ò
16	inch					:
18	inch		٠			
20	inch	۰		٠		

BALTIMORE HORSE LAWN MOWER

The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjustment of knives; strong and durable; heavy roller, which is a necessity to keep the lawn in good order; simplest and strongest machine in construction on the market, and most economical as far as repairs are concerned.

25-inch Machine, with Draft Rod.

310.00
30-inch Machine, with Draft Rod.

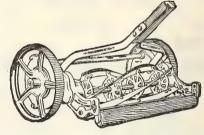
123.00
30-inch Machine, with Shafts and Seat.

143.00
been you of 1 The Baltimore Horse Lawn Mower is made of best material; most

Pennsylvania Regular Horse Mower
Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the

cut gra	SS.				
30-inch	Machine,	with	Draft	Rod	\$125.00
38-inch	Machine.	with	Draft	Rod	155.00
20-inch	Machine	with	Shafts	and Seat	150.00
38-inch	Machine,	with	Shafts	and Seat	180.00

SENIOR MOWER



Timken Bearings, Self-Adjusting Triple Ge 5-Blade Reel, 10-inch Wheel, Open Spoke, 6-i Reel, Triple Gears on both sides, Extra L Wheel Base. Raised Edge Bottom Knife, allow long wear without sharpening.

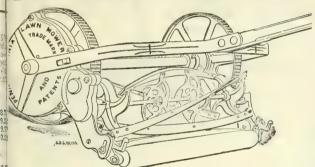
14-inch													٠.	٠					. !	\$2	1
16-inch																					
18-inch					 	 		,												2	
20-inch					 	 										٠				2	

Lawn Mower Repairing and Sharpen

Our well-equipped shop and competent mechanics, that been repairing and sharpening lawn mowers for years, ass you of a first-class job. In a season we repair many hund of lawn mowers, and as most of them have to be repaired sharpened before the first grass mowing, you will readily the necessity of sending your mower in early. During early season we run our repair department many time night that we might give our patrons prompt service.

Our repair department does not confine its operation sharpening and repairing lawn mowers only. We are position to do general repair work and solicit your patrol in other lines of work.

PENNSYLVANIA HIGH-WHEEL MOWER



his high-grade Mower is constructed for cutting ordinary likes, as well as grass from 6 to 10 inches high. Wheel, 10½ hes; cylinder, 6½ inches. Four crucible steel knives. List Retail List Retail

List inches...\$30.00 inches...34.00

\$28.50 32.30 List Retail 19 inches...\$38.00 \$36.10

EAT AMERICAN BALL-BEARING MOWER

lvery detail of this Mower is in keeping with the high de of the Pennsylvania and Continental. Can be regulated out from % to 1% inches from the ground. List. Retail.

inches...\$30.00

\$21.00 23.80 19 inches...\$38.00 21 inches... 42.00 \$26.60 29.40



r Special Price, \$16.00

HORSE LAWN BOOTS

Fastened firmly to hoof instead of around ankle, giving free action to horse's feet. Rolling toe prevents cutting of turi. Width inside, No. 2, 5½ inches; No. 4, 6½ inches; No. 6, 7 inches—the right sizes for Nos. 2, 4 and 6 horses-shoes. No. 0 Mule and No. 1 Pony. Special sizes to order.

GRASS CATCHER



No. 110—Canvas Catcher, made of fine quality duck, heavy galvanized wire frame: ad-justable steel hooks will fit any mower, 12 to 16 inches wide.

Price. \$.75

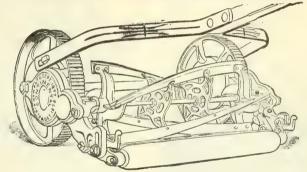
Price. \$.75

No. 115—
from 14 to
20 inches. Price...\$.90

No. 151H—METAL
BOTTOM CATCHER, 13
inches deep, made of
heavy duck; heavy galvanized wire frame; adjustable steel hooks; ad-

stable to mowers 12 to 16 inches wide. Price. \$1.25 to, 156 H—16 to 20 inches wide Price. \$1.50

CONTINENTAL HIGH-WHEEL MOWER

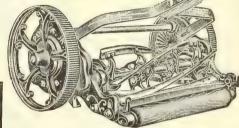


This very high-grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.

List Retail List Retail 5 ins. \$30.00 \$28.50 19 ins. 38.00 \$36.10 7 ins. 34.00 32.30 21 ins. 42.00 39.90

Pennsylvania Jr. Ball-Bearing Mower

Same highgrade construction used in the Pennsylvania High-Wheel and Continental Mower.



List Retail

\$28.50 19 ins.\$38.00 32.30 21 ins. 42.00

Pennsylvania Roller Mower For Putting Greens

This mower is unexcelled for cutting undulating or wavy greens, also tennis courts, cricket creases and other Lawns requiring an exceptionally close and smooth cut.

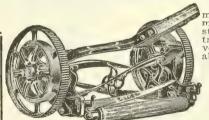
It has six crucible tool steel blades oil-hardened and water tempered Triple gears, insuring power and speed, cast iron roller, 7 inches in diameter, improved curved pattern tempered crucible steel tool bottom knife, cuts 3-16 to 1½ inch. Staytite hardwood handle with adjustable steel clamps on cross bar.

PRICE

 16 inch
 \$35.25

 18 inch
 39.60

ORCHID BALL-BEARING MOWER



This machine is made from high-grade material. Its construction, while extremely simple, is very strong and durable

16 inch, Our Special Price, \$17.25

Our Special Price, \$18.00





WATER BALLAST LAWN ROLLER

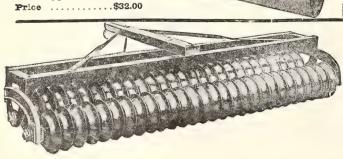
filled with water to any desired weight. It can thus be regulated any desired weight. It can thus be regulated to suit soft turf, firm lawns or driveway, tennis court, etc. It can be emptied for tennis court, etc. It can be emptied for storing away, making it light and easy to handle. The drum is high carbon steel with all seams electric welded. Edges are rounded back to prevent cutting of lawns, courts. etc. courts, etc.

The axle is mounted on roller bearings, making the roller run very easily.

	00000000000000000000000000000000000000	"Mn.1 Q. 14 in. 18 in. 24 in. 24 in.	ni pt ni pt ni of ni of ni of ni of ni of	Hand Market Mark	sol los. Sol los vith sol	\$17.00 20.00 23.00 26.00
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No. 105 1/2 No. 106 1/2 94 585 Price does not include Doubletrees and Neck Yoke.
Doubletrees and Neck Yoke...... \$40.00 42.50 \$3.75

MADE IN 13 SIZES. 1& 3 SECTIONS

\$ 50.00 76.00 85.00

125.00



For making a perfect

seed bed.
For mulching or cul-

tivating small grain in the spring.
For breaking the crust on grain or cotton fields, to allow young sprouts to come through.

For packing down soil heaved by frost and sprouts of wheat or clover in early

or pulverizing soil in corn and tobacco fields before and after cultivating and on other plant crops to insure good cultivating and yields.

For packing down sod. For crushing and pul-

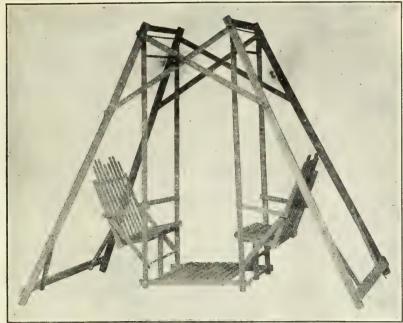
verizing clods.

Size and Length over all.

Weigh
4-ft. Single section with shaft for one horse. 800

In presenting this Double Gang Pulverizer, we wish to call special attention to the construction of the end brackets, which are so constructed as to allow the trailer to raise and fall with the variations of the soil, thus insuring an even pressure from both gangs at all times.

No.	Size	Front Gang	Rear Gang	Weight	Price
626 627 628	8-foot	18-15 in. Discs 21-15 in. Discs 24-15 in. Discs	22-12 in. Discs	1000	872.50 80.00 90.00



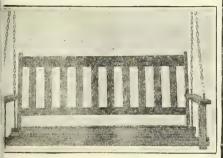
LAWN SWING--THE BONANZA

Accompanying cut represents our "Bo-nanza" four-passenger Lawn Swing. Made of hardwood, with %-inch bolted

Has three seat and foot-rest adjust-ments. Frame painted red; balance of swing golden oak. Hooks where swing bars hang on iron rods at top of frame. Height 9 ft.
Seat Space 34 in.
Ground Space 9 ft 4in. x 6 ft.
4-Passenger \$11.75



No. 6 Porch Settee



ade from 1-inch oak stock. In design lines are very much the same as the 8, made with formed seat, as shown in but without the paneled ends.

o. 6—3½-foot. Our Special Price \$4.30

o. 6—4 -foot. Our Special Price 4.90

WINNER LAWN SWING

This Lawn Swing is made of hard-wood, frame painted a bright vermilion, chairs, hangers and foot-rest a beautiful golden oak, and is a splendid value for the money.

COMPETITION LAWN SWING \$9.25



and durable. popular in weathered oak. All slats bolted to frame; no rivets.

No. 7—4-foot. Our Special Price, \$5.80 No. 7—5-foot. Our Special Price, 6.80

No. 8 Mission Porch Settee



1¼-inch oak stock, very strong and substantial, mission effect, saddle seat. Put together with rods and bolts.

No. 8-4-foot. Our Special Price, \$7.50 No. 8-5-foot. Our Special Price, 8.75 No. 8—6-foot. Our Special Price, 10.10

AWN SETTEES

The Lawn Settees listed below, have strength and beauty, and at the same time are very reasonable in price. The frames are made from strong steel, and the seats and backs from smoothly fin-ished hardwood.

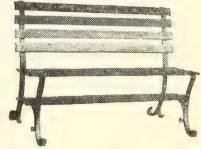
Meadowbrook Settee



Commonwealth Settees



Country Club Settees



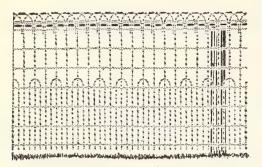
Parkside Settees



5 Foot.

GRIFFITH @ TURNER CO.

Perfection Fabric



beautifence is made of No. 9 heavy galvanized wire spacing between uprights at the bottom, being 1% inches, and at the top 2% inches; the cables are of heavily galvanized wire, spaced about six inches apart, except the two at top, which are spaced 2¼ inches apart; furnished regularly in rolls of 200 feet. Any length cut to order.

PRICE OF PERFECTION PENCING

Height]	List, Per Ft.	Our Price
36 inches		22c.	17c.
42 inches.		24c.	19c.
48 inches		28c,	21c.

These prices are for the fence fabric only, and do not include posts. For prices of complete fence see below.

PRICE OF ECONOMY FENCING

2 20202	01 1001	OHLY THIO	TT4 CL.
Height		List Price	Our Price
36 inches.		16c.	12c.
42 inches.		18c.	14c.
48 inches.		20c.	16c.

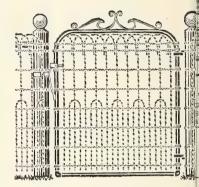
Economy Fabric



Perfection

The frames are made of high grade heavy steel tubing, and are regularly finished in galvanized frames. Filling of these gates is the regular Perfection Fence Fabric, described at top of page, and as shown by illustrations the gates have ornamental scroll tops. In giving the dimensions of gates, state first the height, and then the width. The width of these gates means the distance between the posts. The factory makes proper allowance for hinges and latch.

pa	TO Proper	COLO II COL		**0 0~	connect new	U U S.E.I					
	WALK	GATE	S	SI	NGLE	DRIVE (GATES	DC	UBLE	DRIVE	GATES
			Our	1			Our	1			Our
Ht.	Width	List	Special	Ht.	Width	List	Special	Ht.	Width	List	Special
In.	Ft.	Price	Price	In.	Ft.	Price	Price	In.	Ft.	Price	Price
36	3	\$5,00	\$4.20	36	8	\$12.00		36	8	\$11.60	
42	3	5.20	4.35	42	8	12.20	10.25	42	8	11.80	9.85
48	3	5.40	4.50	48	8	12.40		48	. 8	12.00	10.00
36	31/2	5,20	4.35	36	10	14.00		36	10	13.60	11.35
42	$3\frac{1}{2}$	5.40	4.50	42	10	14.20	11 75	42	10	13.80	11.50
48	$3\frac{1}{2}$	5.60	4.75	48	10	14.40	12.00	48	10	14.00	11.65
36	4	5.40	4.50	36	12	16.00	13.35	36	12	15.60	13.00
42	4	5.60	4.75	42	12	16.20	13.50	42	12	15.80	13.20
48	4	5.80	5.00	48	12	16.40	13.75	48	12	16.00	13,35
				36	14	18.00		36	14	17.60	14.65
				42	14	18.20	15.20	42	14	17.80	
				4.8	14	18 40	15.35	4.8	14	18.00	15.00



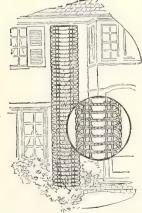
Perfection Complete Fence

Perfection Complete Fence is a pleasing dignified design which will harmonize with and add character to the property inclosed. Furnished in suitableights for the home, private ground cemeteries and parks,
Height refers to fabric used. The complete fence, when erected, will measu a few inches higher than the fabric Gates are not included in the line footage of fence, but are billed separately at regular prices,
All parts of fence are thoroughly gavanized.

vanized.

Price per Foot F. O. B. Factory. Height

	inches.					
	inches.					
48	inches.					.92c.



Perfection Trellis

This trellis carries the general style of Perfection Fencing. It is extremely strong, embracing beauty and adaptability. Cut in any length desired.

List Our Width Price Price 18 inches 14c.

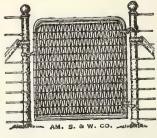


Perfection Flower-Bed Guard

Is 18 inches high above ground. Has 3 cables of two No. 13 wires, Has No. 9 crimped uprights. All heavy galvanized pickets project for insertion in ground. Requires no posts. Can be cut to length to any bed. It provides protection against dogs and chickens. List Price, per foot, 13c.

Our Special Price, 11c.

American Walk Gate



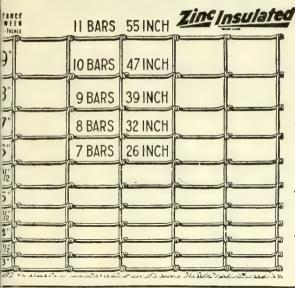
Filled wi 1 inch Di mond Mes heavily g vanized Fa ric, which unclimbab Furnish with galva ized Fran Plain Top.

4

							Shec
						Price	Pric
3	ft	Wide.	50	in.	High	.\$5.40	\$4
3	ft.	Wide.	58	in.	High	. 5.70	4
31/6	ft.	Wide.	50	in.	High	. 5.98	4
31/2	ft.	Wide.	58	in.	High	. 6.35	4.
3	ft.	Wide.	72	in.	High	. 7.50	5

GRIFFITH @ TURNER CO





Top Bar....9

Bottom Bar. 9

FIELD FENCE

For Horses, Cattle, Sheep, Hogs and all Farm Animals.
Stay wires either 6 or 12 inches apart.
This fence made in five heights is ample for general farm use.
The close spacing at the bottom turning hogs and the construction is such as to hold sheep, cattle and horses.
The top bar is No. 9, the bottom No. 10, the intermediate bar, No. 11 and the stays are No. 11 wire.

Style No.	Height in Inches	Approx. Weight per Rod, Pounds	12-in. Stays Retail: Prices, per Rod	Approx. Weight Pounds	6-in. Stays Retail Prices
1155 1047 939 832 726	55 47 39 32 26	11.8 10.6 9.4 8.3 7.2	\$0.71 .63 .57 .50	15.9 14.1 12.4 10.8 9.3	\$0.99 .88 .78 .68 .58

ACTUAL SIZE OF WIRES Intermediate

11

Bars

Stays 11

CATTLE FENCE

This is an ideal horse and cattle fence and is used largely for division ices. The stays are 12 inches apart, and we do not recommend use for hogs. The top bar is No. 9 the bottom No. 9, the intermediate rs are No. 11 and the stays are No. 11 wire.

Style	Height in	12-in. Stays Approximate Weight per Rod, Pounds	Retail Prices
Number	Inches		per Rod
949	49	10	\$0.60
845	45	9	.55
635	35	7	.42

ACTUAL SIZE OF WIRES

эр	Wire 9	Intermediate	Wires11	The state of the s

Ť	DIST	ANCE				7
	ottom	Wire9	2 2 2	Stay	Wires11	
ŧ	•					All washing the second

BETWE BARS-ING	E M HES	9 BARS	49 INCH		Di:
9"					6
8"					N.
7"	2	0		2	S
6"		0	-	(a	£
5½° 5°	2				Z Z
4½" 4"					E Z

BETWEI BARS-INCH		21	BARS	58	INCH
5"			p		
5"		19	11	48	11
41/11	P	0	2		
41/211	P		p.		
4"	p	16	11	35	11
4"	p	D	P	2	P 0
31/2"	P	-	P	p	
3½"	-	0	<u></u>		
21/2"	P.		P		
21/2"	P	2	P	Man Jac	main
2"	P		2		
2"	P	1	p. M	2	2
2"	P			2	
1 1/2"	P		P	Mar _{ill} ii.	
1 1/2"	n				

POULTRY and

The illustration above shows the U.S. Poultry and Garden Fence, and the U.S. Poultry Fence is built of the same grade of wire as issused in the U.S. Field Fence, but of lighter gauge and the same excellent wrap is used. It is an ideal fence against poultry and small animals. The spacing is graduated from 1½ inches at the bottom to 5 inches at the top, as shown by the illustration and the distance between the stays or uprights is 6 inches. We carry this fence in stock in the styles mentioned below. It is very extensively used as a protection for poultry yards, gardens and orchards. It meets the requirements; therefore it is a great favorite. Furnished regularly in rolls containing 10 rods or 165 lineal feet.

Style No.	Distance Between Stays	Height, Inches	Approx. Weight per Rod	Prices per Rod
2158 1948 1635	6 6 6	58 48 35 73	12.5 11.1 9.2	\$0.77 .69 .57

ACTUAL SIZE OF WIRES

Top Wire..., No. 11 Bottom Wire .. No. 11

Stay Wires.....No. 1412

Intermediate Wires. No. 121/2

1936

2248

2872

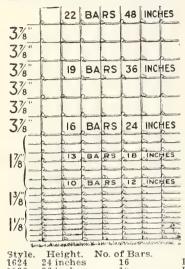
36 inches

48 inches 60 inches

72 inches

Height.

BANNER POULTRY FENCE



Banner Fence meets the demand for a closely woven fence heavier than the light poultry nettings. The spacing between the six line wires at bottom of fence is only 11/8 inches and gradually increased to 3% inches at top, so the essential feature of a satisfactory poultry fencecloseness of mesh-is well taken care of in this fencing. The upright wires or stays run continuously across the fence and lock firmly around the intersecting line wires in a loop knot, forming a smooth, solid joint without any sharp, rough edges. Top and bottom wires No. 15; all other wires No. 17 gauge, hard steel, thorought galvanied. oughly galvanized.

Price per 10-rod Roll. Our Price, \$4.25 Our Price, 5.25 Our Price, 6.30 List, \$7.10 List, 8.80 List, 8.80 List, 10.50 List, 12.30 List, 14.00 Our Price, Our Price, 7.40

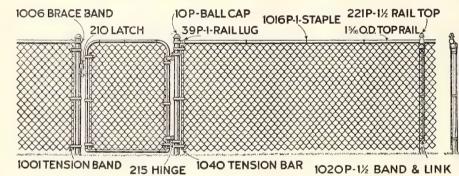
Galvanized Steel Fence Posts

CHEAPER THAN WOOD AND MORE DURABLE --GALVANIZED INSIDE AND OUT.

These posts are neat, strong, durable and easy to erect. They will give you much more and better service than can be expected of wood posts because all being alike in size and quality of material, you get benefit of every post in the fence from year to year, while wood posts rot and decay. The line posts are strong enough to hold up any wire fencing, and furnish all necessary resistance. The end and corner posts are so strong that they will maintain any wire fence made.

		Approx.	
	Length	Weight	Special Prices,
Nos.	in Feet	in Lbs.	Fer Post
141/2 Line Post	. 5	7.4	\$0.65
14½ Line Post		8.4	.70
141/2 Line Post		9.3	.74
14 1/2 Line Post		10.	.80
.14 % Line Post		10.7	.85
14 1/2 Line Post		11.4	.95
141/2 Line Post		12.8	1.35
10 End Post		51.	4.25
10 End Post	. 8	59.	4.75
10 Corner Post	. 7	75.	6.30
10 Corner Post	. 8	86.	6.80
Junior End Post	. 6		2.25
Junior End Post			2.75
Junior Corner Post	. 6		3 55
Junior Corner Post			5.75
Ball Tops for Line			
Ball Tops for End			
Driving Cops for L			

PAGE RELIABLE FENCE



The fabric is of 2-inch mesh No. 9 (W. & M. Gauge) wire, heavily galvanized. Each picket is interlocking, thus preventing any spreading of the wires. It is non-

Height refers to height of fabric used. The complete fence, when erected, will measure a few inches higher than the fabric.

Gates are not included in the lineal footage of fence, but are billed separately at

regular prices. Complete Fence Retail Price Fabric Only

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温												7	75-		720		70-					
H	200									5	~				76	70-	75-					

Banner Steel **Fence Post**

The Banner Posts are man from a rolled section the represents an entirely neprinciple in post construction in the section of the secure in any other section of equal weight. A study the illustration on the spages will make clear the reasons why Banner Possible strength, and they are educated in the secure in to buy.

Note the frequent notch on the face of the post, whi firmly hold line wires in postion and away from the fac of the post, thus preventiaccumulation of dirt a moisture. Any or every we can be attached with o hump. Clamps for fastenifurnished with each post.

	· · · · · · · · · · · · · · · · · · ·	** 1 011	cacii	post.	J.
		W	t. lbs.	Pri	1
5	ft		7.32	\$.	1
6	ft		8.65		
7	ft		9.98		
8	ft	1	1.31		Ī
					ŧ

General Purpose Farm Gates

The frame is made from heavy 1¼ inch or side dimension tubing. The wire filling is Hea Galvanized No. 9 Woven Wire. The frames a Galvanized, and electrically welded at the join thus insuring a gate that will not sag or two out of alignment. In addition the gates a strengthened by internal braces.

The fabric is actually woven into the franand not simply tied in with a lace wire.

	Distance	Between Posts	
Height 1	0 Ft. 12 Ft.	14 Ft. 16	1
48 inches	\$8.85 \$10.20	\$11:30 \$1	2
54 inches	9.20 10.8	5 11.75 1	3
			-

Retail Price \$.34 Per ft. .38 Per ft.

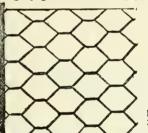
.42 Per ft.

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DIAMOND MESH POULTRY NETTING

The wire we offer is No. 20, double twist, 2-inch mesh. oroughly galvanized. Sold in bales of 150 running feet. List Retail



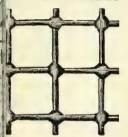
		Sq.		Price
No.	Wide.	Feet.	Per	Bale.
	Galv.	After	Weavir	ıg.
20	12	150	\$2.14	\$1.25
20	18	225	3.08	1.75
20	24	300	3.92	2.25
20	36	450	5.35	3.00
20	48	600	7.13	4.00
20	60	750	8.91	5.00
20	72	900	10.69	6.00

Price 1½c. per square foot in less than bale lots. Staples for fastening, 10c. per pound.

ONE INCH MESH

inch	Mesh Galv. Af	ter Weaving.	List Price	Retail Price
P	Inches wide.		Per Bale,	Per Bale.
()	12	150	\$ 4.95	\$2.75
0	18	225	7.12	4.00
0	24	300	9.08	5.05
ĮD-	36	450	12.38	6.90
)	48	600	16.50	9.20
1	60	750	20.63	11.40
0	72	900	24.75	13.75

GALVANIZED STEEL WIRE CLOTH



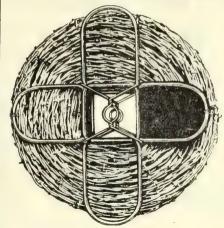
Made from heavy wire thoroughly galvanized after weaving. This insures long life, as every part of the wire is coated by the dipping process.

Used largely in corn cribs to make them mice and rat proof, also for sieves and fan screens and over windows for protection.

We carry it in stock in widths 2, 2½, 3 and 4 foot.

The word mesh means number of meshes to the inch (2x2, 2 to the inch; 4x4 mesh, 4 to the inch, etc. Full rolls contain 100 running feec.

				PRICE.	Less Than
				Full Rolls.	Full Rolls.
	Mesh,	per	sq.	ft \$0.05½	\$0.061/2
	Mesh,	per	sq.	ft	.07
t	mesn,	per	Sq.	ft	.0714



New Wire Reel Patented

AMFRICAN BARBED WIRE

All brands of American Darbed Wire are plainly stenciled with the brand and registered trade mark. Customers who want good quality should insist on getting these well known brands.

Price on Application

AMERICAN RIBBON WIRE



Price on Application.

AMERICAN TWISTED STRAND WIRE



Price on Application, .

American Plain Fence Wire American Plain Annealed Wire Prices on Application

COTTAGE" Lawn and Garden Fence



Height, List Price, Our Price, inches. per rod. \$2.00 per rod. \$1.35 24 36 2.00 2.70 3.00 4.00 5.00 3.35 6.00 4.00

FOLDING CLOTHES DRYER

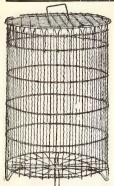


CLAY SUNSHINE FOLDING CLOTHES URYER

Has tension adjuster, by merely raising arm one notch higher. Arms are easily raised like an umbrella on the steel center post. The ends of Drier Arms are Reinforced with steel bands. All parts are heavily galvanized, and varnished with a weather-proof varnish. High grade long fibre sea island cotton line is only used. Arm braces Angle iron. Price Price .15.00







TRASH BURNER OR CONSUMERS

The best way to dispose of your waste paper and rubbish is to burn it in a **Consumer.** Avoids danger and helps to keep the yard and lawn clean and free from litter. Being made of heavy steel wire, with removable cover, it serves as a strong and neat waste basket.

No.	1-19	in. diameter, 3	30	in.	high.
	Retail	Prica			. \$2.50

No.	2-17	in. diameter,	24	in.	high.
	Retail	Price			. \$2.00

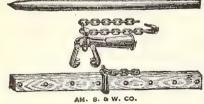
GATE HINGES AND LATCHES

		11100
No.	Size	Each
H1 Walk Gate Hinge Eye	1% in. O. D.	\$.50
H3 Walk Gate Hinge Eye	1 1/8 in. O. D.	.45
H7 Post Hinge Hook	2 in. O. D.	.75
H9 Heavy Post Hinge Hook	2½ in. O. D.	1.00
H10 Heavy Post Hinge Hook	3 in. O. D.	1.10
C105 2 Way Latch	$2\frac{1}{2}$ in. O. D.	.75
C102 2 Way Complete Latch	2 in. O. D.	.50
Pig Ear Latch	3 in. O. D.	1.10
Spring Latch for Walk Gate		.75
Spring Latch for Drive Gate		.90

THE IMPROVED



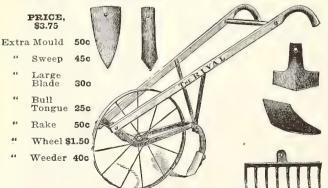
The Neverslip Stretcher has no teeth to cut or injure wire. Simple and strong in construction. Made of strong, Malleable Iron and will last a lifetime. One man operates it, and both hands are left to drive staple. Price..........\$1.25.



Clamp Bars made of

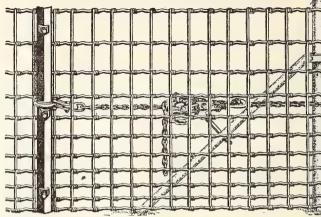
Clamp Bars made of reinforced with half-oval iron to keep wire from slipping. Lott stretcher furn-ished complete except Lever. Use for this purpose an old piece of pipe or lever cut from wood. **Price**, \$9.00

PLOW COMPLETE



AMERICAN SINGLE JACK STRETCHER

Shipping weight approximately 821/6 lbs



The American Single Jack Stretcher combines all the important features of a fence Stretcher—Simplicity, Strength and Safety.

It is made entirely of steel, therefore, strong and dur-

able

able.

Its angle bars, or clamp bars, are rounded in such a way as to prevent injury to the wire during the stretching.

Only three bolts on Clamp Bars—which can be easily and quickly tightened.

It can be operated by one person.

This Stretcher consists of one pair of Clamp Bars, one Jack or Stretching Head, one set of Chains and Lever.

Price \$10.50

WIRE STRETCHER

No. 1

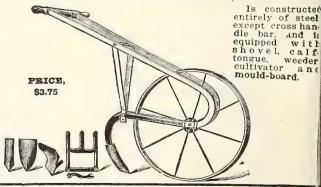


Five-Tooth Weeder Attachment

Can be attached to any of the Garden Plows

Price \$1.00 each.

No. 1 GRITCO GARDEN PLOW



GRIFFITH @ TURNER CO. 29129



PLANET JR. GARDEN TOOLS

PLANET JR. COMBINED SEEDER AND SINGLE WHEEL HOE NO. 4

which nut hu. 4
e No. 4 Combined Seeder and Wheel Hoe is a most useful combination available for the Home or Market Gardener where the acreage does not warrant having separate Seeders and separate Wheel Hoes. More of them in use than any other tool of this kind. Sows all vegetable seeds in the drill or drops in hills 4, 6, 8, 12 or 24 inches apart. Fine assortment of cultivating attachments take care of all garden work. The No.



Capacity of seed hopper 2½ qts. Quickly changed from hill to drill a n d seeder from eeder to wheel hoe.

4 Hill and Drill Seeder and Single Wheel Hoe Como. 4-D Seeder only \$14.25

NO. 25 HILL AND DRILL SEEDER DOUBLE AND SINGLE WHEEL HOE COMBINED, PRICE \$21.50



PLANET JR. HILL AND DRILL SEEDER



NO. 26 PLANET JR. DRILL SEEDER



Price \$20.00

No. 12 Planet Jr. Single and Double Wheel Hoe

The most popular combination of Double and Single Wheel Hoe for the Market Gardener and Home Gardener in use today. The assortment of cultivating attachments consisting of 1 pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth, and 1 pair of leaf lifters. Cultivates both sides at one time. Then it can be used as a Single Wheel Hoe on the sides of the rows and berows and be-tween and will do va-rious kinds of cultiva-tion. Price \$10.75

17 PLANET JR. SINGLE WHEEL HOE

The No. 17 Single Wheel Hoe will do about the same variety of work as No. 12 Double but is wider. Thousands of Market Gardeners and Home Gardeners buy them every year and there are more of them in use than any other tool of this kind. Equipment: 1 Garden Plow, 3 steel cultivator teeth. 1 pair of 6-inch hoes. The No. 17 will do practically all the work mentioned under the No. 12 and will do in one day work that would require several lays with the old-style hand hoe. Price \$7.75

No. 11 Planet Jr. Double and Single Wheel Hoe Combined

No. 11 Planet Jr. is the most complete combined double and single wheel hoe we offer, and has the largest and most useful set of attachments. The steel frame can be set at different heights to suit any kind or depth of work and the attachments or their position can be changed in a few seconds. Equipped with the following attachments: One pair 6-in. hoes, one pair 4½-in. hoes, four steel cultivator teeth, one pair plows, two 3-tooth rakes, two 5-tooth rakes, and two leaf lifters. Combined. \$13.75

FIRE FLY GARDEN PLOW

This is an exceedingly useful tool to owners of small gardens. It will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going the second time in the same furrow. It opens furrows for manure or seed and covers them, and opens up rows for all kinds of plant-setting. Fire Fly Garden Plow.....\$4.25

NO. 4-ED PLANET JR. HORSE HOE

The king of cutten and corn cultivators. The No. 4-ED Horse Hoe is the cotton and corn growers favorite cultivating tool in may sections. Adjustable swivel standards permit the tool in may sections. Adjustable swivel cultivator teeth, sweeps and turning shovels on the third and fourth standards to throw a furrow to or from the row; can be adjusted to any position. The equipment of this popular tool is—four 3x8 inch cultivator steels and one 4x8 inch cultivator steels. Sweeps, furrowers and other Planet Jr. Horse tool attachments can tachments can added when wanted.

GRIFFITH @ TURNER CO.

No. 77. Straight Spout.

No. 77. Bent Spout. These oil cans are made from Cold Rolled Steel and have Clock Spring Steel

Bottoms.

Price each 15c



No. 620.

OIL CANS



Copperized Steel Oilers

Made from high-grade cold Made from high-grade cold rolled steel, with guaranteed clock spring bottoms; seamless drawn steel bodies (collar included), all one piece; heavy rolled threads; bottom double seamed and rolled. Heavy electro copper plated, 1%-inch wide mouth opening.

~ 70	111011 11140	modell op	CHITTEP.
No.	Size	Lgt. Spt.	Price
12	½ pt.	3 in.	15c.
13	⅓ pt.	3 in.	20c.
14	⅓ pt.	9 in.	25c.
15	1 pt.	3 in.	30c.
16	1 pt.	9 in.	35c.



No. 06-Y

No. 06-Y—Large muleskin finger cot protected with steel washers from wear. Mounted on cold rolled steel pin, nickel-plated with two compartment finger strap and

with two compartment finger strap and buckle adjustment 25c.

No. 7-Y—Same as 06-Y, with cot more open between the fingers. Grain leather 25c.

No. 41—Heavy, narrow steel pin, nickelplated, with extra large elk leather shield covering the ends of the fingers or laced to form a finger cot, with divided finger strapt to support knuckle. Sliding ring, making three compartments, and buckle adjustment.

No. 100-Y—Cold volled steel 111.

No. 100-Y—Cold rolled steel, 4½ inches nickel-plated pin, with split leather shield and double compartment, adjustable finger

Albany Grease or Hard-Oil



Every grease cup, axle cup and ball and roller ball and roller bearing on your car s h ould be filled with Albany Grease regularly. Grease regularly.

If you want a
finely running
car, with no danger of bearings
burning out, always use Albany
Grease. In the
Spring, Fall and
Winter use No. 0
or No. 1. In the
best results. Albany Grease is packed

in 5-1	esuits 0 pour	id.	an Ba	LI	18	a	п	У	7	u	I	е	EL.	8	е	1	S	Ţ)a	.CI	Σ€	c	
5-lb.	pkgs.																			\$1	.2	25	
10-lb,	pkgs.		 																	2	. 5	ic	١

MICA AXLE GREASE



MICA AXLE GREASE

Standard Oil C

This is the highest quality of Axle Grease and contains ground mica, which forms a coating on the axle and makes a perfectly smooth surface. After this surface is formed you need use only half you need use only half as much **Mica** as of any other axle grease. Tin Box \$0.20 3-lb. Pail .40 15-lb Pail 1.60 25-lb. Pail 2.40

GRITCO AXLE GREASE

1	lb.											\$0.15
												1.20
25	lbs.	۰	۰	•	•	,	•	٠	•	• •	•	2.25

MARVECTER OIL

	00020											9
gallon	cans			 		٠.				.\$.8	
gallon	cans			 		٠.			۰	. 4	1.00	Ì

Household Lubricant Oil

This very fine oil is put up in small oi cans, ½-pint sizes, very convenient to use. It is especially adapted for use or sewing machines, lawn mowers, hinger and locks and locks.

to users of all hand machines, it being light oil and having a very low cold test 1-quart can \$0.4 ½-gallon can 1.2 1-gallon can 1.2 5-gallon can 5.0

MONARCH STEEL STUMP PULLERS

Monarch Stump Pullers embody in their construction special features which make them the strongest and most efficient machines for such work. The heavy, solid, one-piece main frame, the grooved drum, the drum clutch, the high-grade cable and other features place the Monarch Stump Pullers in a class to themselves. Special catalogue fully describing these features mailed free on application.

If interested in Stump Pullers, wire for

If interested in Stump Pullers, wire for our catalogue of the Monarch line, which is very complete and useful; also let us know how much stumpy land you have, the kind of soil, the kind and size of stumps, how close to the ground they are cut and whether they are green or dead. your work.

No. 2—Steel One-Horse Stump Puller, equipped with 50 feet of ¾-inch pull cable and 8 feet of ¾-inch anchor cable. For ordinary stumps. Weight 450 pounds. Our Price, \$153.25, with 75 feet of pull cable.

No. 4—Monarch Steel Stump Puller, 75 feet ¾-inch pull cable, 10 feet ¾-inch anchor cable. Weight 675 pounds. Our Price, \$191.75. Extra cable (to make pull cable any lenghth you want), per foot,

No. 4—Cam Take-Up, with 10 foot %-inch cable and steel cable hook. Weight 50 pounds. \$36.75

No. 4—Double Power Pulley, 12 feet 1-inch cable and steel cable hook. Weight 65 pounds. \$46.75

For larger sizes write for prices.



This information will enable us to recommend the equipment most suitable fo

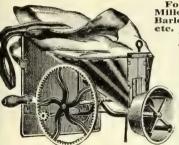
MONARCH BESSEMER STEEL STUMP HOOKS.

Notice the sharp cutting edges on the inside of each promand the heavy steel back of them, which counts for strength No. 4—Regular Mesquite Stump Hook, for use with No. 2 No. 3 and No. 4 Mighty Monarch Stump Pullers; used extensively for heavy brush hedge, palmetto, mesquite and obstumps. Weight 65 pounds. Our Price, \$31.75.

No. 7—Medium Mesquite Stump Hook, for use with No. and No. 6 Mighty Monarch Stump Pullers; for heavy stump and heavy mesquite, etc. Weight 85 pounds. Our Price, \$43.20.

No. 8—Giant Mesquite Stump Hook, for use on No. 7 Might; Monarch Stump Pullers or on large double, triple and quadruple power outfits for extra heavy work where no other stump hook will stand the strain. Weight 160 pounds......\$83.3

Cahoon's Broadcast Seed Sower



For sowing Clover, Timothy,
Millet, Oats, Wheat, Hemp,
Barley, Rye, Rice, Buckwheat,
etc. Standard Seeder of the
World—A Model for Aceuracy and Durability—
Malleable Iron Frame—
Steel Hopper and Gate—
Brass Discharger,

The breadth of the cast will be according to the weight of the seed and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 feet. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet.

\$5.00 OUR SPECIAL PRICE,

Parcel post Weight, 8 lbs.



The Original **Improved** Cyclone

recommend the CYCLONE too highly.

PRICE, \$2.50. Parcel Post Weight, 6 lbs.

Meeker Smoothing Disc Harrow



The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth, and doing its work far better than the rake.

Our Special Price......\$33.50

PRICES CLIMAX PLOWS.

PONY—Light, 1-horse, 7-in. cut, wood beam; very popular. Price with extra steel point; weight, 37 lbs., **85.50**.

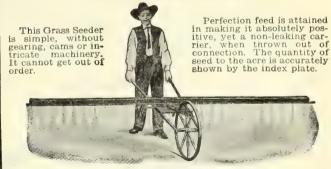
A. O.—1-horse, 8-in. cut, wood beam. Price, with extra steel point; weight, 41 lbs., \$6.00.

B. O.—1-horse or light 2-horse, 9-in. cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most metalisfactory manner; very light draft. Price, with extra steel point; weight, 43 lbs., \$7.00.

C. O.—2-horse, 10-in. cut, wood beam. Price, with extra steel point; weight, 63 lbs., \$9.00.

D. O.—2-horse, 11-inch cut, wood beam; it turns its furrow slice perfectly. Price with extra steel point; weight, 66 lbs., \$10.30.

Thompson's Clover and Grass Seeder
Sows 14 to 16 Feet Wide, Any Amount Desired Per Acre. Will
Sow 20 to 25 Acres Per Day.



It is strong, yet weighs but 40 pounds.

No. 1—Complete Clover and Grass Seeder, the most popular style. 14-foot, \$11.50. 16-foot, \$12.50.

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot, \$13.00.

MANILA ROPE FEEDER.

GRITCO No. 9 LAWNGRASS SEEDER.

Made especially for handling Lawn Grass Mixtures. These mixtures are generally composed of different kind of grasses, and the regular seeder will not handle them.

Thompson's Royal Clover and Grass Seeder These Seeders are similar to the Thompson above, except they

LIGHTNING



Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left which closely resembles the old method by hand from right to left which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube and the wind has no chance to blow seed into bunches before it tribes the ground. strikes the ground.

PRICE, \$1.00.

Parcel Post Wt., 1 lb.

CLIMAX STEEL PLOWS All are made with steel standard and cap, sloping landside and adjustable slip heel.

PRICES OF EXTRAS.													
٠	Points	Lands	Moulds	without	Handles per pair, less bolts	Wood Beam Clevis							
Pony	\$0.60 .70 .80 1.00 1.25	\$0.50 .50 .50 .90	\$1.35 1.60 1.85 2.15 2.60	\$1.95 1.95 2.45 2.80 2.80	\$1.70 1.70 1.70 2.05 2.05	\$0.35 .35 .50 .56							



Price

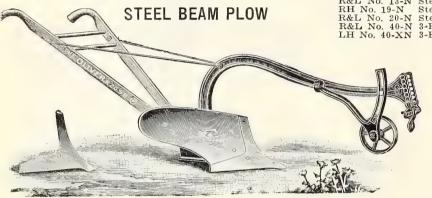
\$ 8.25 10.00 10.00 10.50

12.00

12.00

OLIVER CHILLED WALKING PLOWS No. 40-N SERIES

This series of chilled walking plows were first introduced by James Oliver, the inventor of chilled metal. They are popular with farmers everywhere because of their durability and quality of work. The mouldboard is so shaped that it thoroughly pulverizes the furrow slice. The shares extend to thop of the mouldboard in front renewing the shin of the plow with each new share. Because of their chilled construction these plows will wear for many years even in sand and grayed land gravel land.



Number	Description Wood Beam, Chilled	Capacity	Price
RH No. 10-N	Wood Beam, Chilled	5 1/2 "x11"	\$16.00
RH No. 13-N	Wood Beam, Chilled	6 "x11"	18.00
RH No. 19-N	Wood Beam, Chilled.	. 6 ½ "x12"	19.50
	Wood Beam, Chilled		21.00
	Wood Beam, Chilled		24.0€
	Wood Beam, Chilled		
LH No. 40-XX	2-Horse Wood Beam, Chilled	. 9 "x16"	27.00
R&L No. 10-N	Steel Beam, Chilled		
R&L No. 13-N			18.00
RH No. 19-N	Steel Beam, Chilled	. 6 ½ "x12"	19.50
	Steel Beam, Chilled		21.00
	3-Horse Steel Beam, Chilled		24.0
LH No. 40-XN	3-Horse Steel Beam, Chilled	. 9 "x16"	24.00
			a a
			3.

Description

Chilled.

Chilled

Chilled.

Chilled.

Chilled.

Chilled:

Oliver Chilled Walking Plows A and B Series

The Oliver A and B chilled walking plows are small, one and two-horse plows provided and two-norse provided and two-norse provided and particularly suited for small farms, gar of dens, orchards and vineyards. They are very popular for use in soils containing sand, grit or gravel. The mouldboards are so shaped as to thoroughly pulverize the furrow slice. The points are wedge-shaped

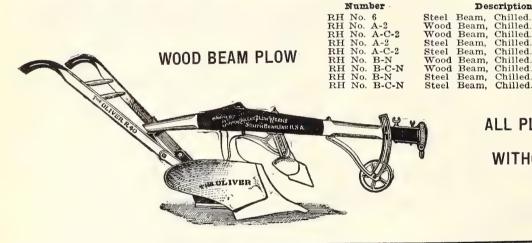
Capacity

4 ½ "x 8" 4 ½ "x 9"

4 ½ "X 9" 4 ½ "X 9" 4 ½ "X 9" 4 ½ "X 9" 5 "X10"

"x10"

"x10"



ALL PLOWS ARE PRICED WITHOUT WHEEL AND JOINTER

Oliver Chilled Walking Plows Nos. 83-N and 84-N

The Nos. 83-N and 84-N are general purpose plows designed for use under a variety of conditions, such as work in sod, clay sandy land, and extreme stony land or shale. Ridged and well braced construction prevents breakage.

Numb	er	Des	cription	ı		Capacity	Price
R&L No).).	83-N—Steel	Beam,	Chilled	or	Comb7"x14"	\$21.50
R&L No	Э.	84-N—Steel	Beam	Chilled	or	Comb8"x16"	24.50



Oliver Hillside Plows Nos. 512, 513 and 524

These are heavy and strongly built, reversible botton plows. The bottoms are easily and quickly reversed and are held in place by a spring latch. A shifting clevis can be used for correcting line of draft.

Number	Descri	ption		Capacity	Price
No. 512—Truss No. 513—Truss No. 524—I-Bean	Beam, C	3hiiied d	regular	8"x13" 8"x15" equipment.	\$27.0 28.0 23.7



8

GRIFFITH @ TURNER CO.



Genuine Oliver Plow Repairs and Attachments

9	HILLED SHARES FOR WALL	ING
0	PLOWS	
0	b. 6	\$.30
Ю		.30 .35
0	C-DS	.40
0	3	.40 .55
0	X-DDS	.95
0	X-DDS	1.05 .60
00	X-DDS	.70
-	,	.75 .85
		1.55
	-XX Medium	.90 1.00
	-88—11-inch DDS -88—12-inch DDS	.85 .95
	1-88—11-inch DDS	.95
	98	1.15
	In FOA	1.25
rs	3-524	1.25
r.	OFFERD STIP MOSE SHAP	ES
ON PRO	OLIVER SHIP NOSE SHAR	\$.50 .60
"A		.75
d.		.85
	-Right Hand only	.90 1.05
28		1.00
15	BOWER SLIP NOSE SHAR	
'n		
50 50	3	
00	3-84—Right Hand only	1.05
75	2—Right Hand only 3-84—Right Hand only 4-88-91—Left Hand only	1.05
5	CHILLED REVERSIBLE SL	IPS
	,	.\$.10 .15
	0-0	15
	3	.15
	0	.15
	2 -X	15
	0	15
		15
	CHILLED SHARES FOR RII PLOWS	DING
	IC-23—16-inch QD	.\$2.05
	IC-23—14-inch QD	1.60
	3—11-inch DS	95
	IC-23—16-inch QD. IC-23—14-inch QD. IC-23—12-inch QD. 3—11-inch DS. 3-84-88—12-inch X DS. 4-88—12-inch DDS S.	95
	REVERSIBLE WINGS	.\$.55
M re	vo. 99-X Oliver	.\$.25
ed	STANDARDS	
	Steel	Wood
08		Beams
XО 10	No. 6. \$1.50 loober 2.25 No. A-2 2.65	
75	NT A A CL 9	. 2.90
	No. B 2.50	. 3.15
	INO. 10	. 3.20
	No. 13 3.25	3.55
	No. 19 3.25	. 3.95 . 4.15
	Vo. E	. 4.50
	Vo. 40 3.75	4.70 6.50
	No. 82 4.75	
	Vo. 84. 4.80. Vo. 88. 5.40.	
	70	
	Fractor 6.25	• •

Plow	Re	pai	rs a	and
CHILLI	ED MO	ULDBO	ARDS	
No 6				\$1.90
No. 6 Goober				2.00
A-Z-4 FLOID.				2.10 2.10
AC-2 B or B-N BC or BCN.				2.75
BC or BCN.				2.75 5.00
E-1				5.80
10-N				3.00
13 or 13-N. 19-N				4.00 4.25
20				4 50
24				6.35 5.00
40		 		5.50
83-N				4.50
84-N				5.00 5.50
98				4.75
98 99 508				5.00 4.95
509				5.50
512				4.95
509 512 513 524				5.50 5.50
	LED I			Thins
No. of Plow No. 6	Part I	10.		Price
				8 .65
Goober	F-1110 F-1283			\$.65 .65
Goober A-WB	F-1110 F-1283 F-1264			\$.65 .65
Goober A-WB A-SB	F-1110 F-1283 F-1264 F-1263			.65 .65 .70 .70
Goober A-WB A-SB AC-WB AC-SB	F-1110 F-1283 F-1264 F-1263 F-1266			\$.65 .70 .70 .70
Goober A-SB AC-WB AC-SB AC-SB	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265			\$.65 .65 .70 .70 .70 .70
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265 S-271 F-1270			\$.65 .65 .70 .70 .70 .70 .1.00
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265 S-271 F-1270 F-271			\$.65 .65 .70 .70 .70 .100 1.00
Goober A-WB A-SB AC-SB AC-SB B-WB-DF B-SB BC-SB-DF E-WB-DF E-WB-DF	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265 S-271 F-1270 F-271 F-325 F-297-1	R—F-2	98-L	\$.65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 10-SB	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265 S-271 F-1270 F-271 F-325 F-297-1 F-1300 F-1224	R—F-29 -R—F- -R—F-	98-L 1301-L 1223-L	\$.65 .70 .70 .70 .70 1.00 1.00 1.00 1.00 1.0
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 10-WB	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265 F-1270 F-271 F-271 F-325 F-297-1 F-1300 F-1224 F-1226	R—F-29 -R—F- -R—F- -R—F-	98-L 1301-L 1223-L 1225-L	\$.65 .70 .70 .70 .100 1.00 1.00 1.45 1.60
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-SB 10-WB 13-SB	F-1110 F-1283 F-1264 F-1263 F-1266 F-1265 F-1270 F-271 F-325 F-297-1 F-1300 F-1224 F-1226 F-1230 F-1230	R—F-29 -R—F- -R—F- -R—F- -R—F-	98-L 1301-I 1223-L 1225-L 1229-L 1231-L	\$.65 .70 .70 .70 .70 1.00 1.00 1.00 1.45 1.60 1.05 1.05
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-SB 10-WB 13-SB 19-WB-DF	F-1110 F-1283 F-1264 F-1263 F-1265 F-1265 S-271 F-1270 F-297-1 F-325 F-297-1 F-1224 F-1226 F-1230 F-1232 F-1232	R—F-22 -R—F- -R—F- -R—F- -R—F- R—F-4	98-L 1301-I 1223-L 1225-L 1229-L 12231-L 31-L	\$.65 .70 .70 .70 .70 1.00 1.00 1.00 1.45 1.60 1.05 1.05 1.25
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF 3-X 10-SB 10-WB 13-SB 13-WB 19-WB-DF 19-SB-DF	F-1110 F-1263 F-1263 F-1266 F-1266 F-1266 S-271 F-1270 F-271 F-325 F-297-1 F-1226 F-1230 F-1230 F-1232 F-148-1 F-148-1	R—F-2: -R—F- -R—F- -R—F- -R—F- R—F-4 R—F-4	98-L 1301-L 1223-L 1225-L 1229-L 1231-L 31-L 43-L	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.05 1.25 1.35
Goober A-WB A-SB A-SB B-WB-DF B-SB BC-SB-DF E-WB-DF 3-X 10-SB 13-WB 13-WB 19-WB-DF 19-SB-DF 20-WB-DF	F-1110 F-1283 F-1264 F-1266 F-1266 F-1265 F-1270 F-271 F-1300 F-297-1 F-1224 F-1230 F-1232 F-1232 F-444-1 F-448-1 F-448-1	R—F-2: -R—F- -R—F- -R—F- -R—F- R—F-4 R—F-4 R—F-4	98-L 1301-I 1223-L. 1225-L. 1229-L. 131-L 43-L. 49-L. 63-L.	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.05 1.25 1.25 1.35 1.35
Goober A-WB A-SB A-SB	F-1264 F-1263 F-1266 F-1266 F-1266 F-1265 F-1270 F-271 F-271 F-297- F-1300 F-1224 F-1230 F-1232 F-1444- F-448- F-448- F-462- F-4244	R—F-21 -R—F- -R—F- -R—F- -R—F-4 R—F-4 R—F-4	98-L 1301-I 1223-L 1225-L 1229-L 1231-L 31-L 43-L 49-L	\$.65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.25 1.25 1.35 1.35
Goober A-WB A-SB A-SB	F-1110 F-1283 F-1264 F-1265 F-1265 F-1265 F-1270 F-271 F-1326 F-1327 F-1320 F-1224 F-1226 F-1226 F-1227 F-1226 F-1226 F-1226 F-1226 F-1232 F-1448- F-1244 F-1244 F-1244 F-1244 F-1244	R—F-22 -R—F- -R—F- -R—F- -R—F-4 R—F-4 R—F-4 R—F-4 R—F-4	98-L 1301-I 1223-L 1225-L 1229-L 1231-L 31-L 43-L 49-L 63-L	\$.65 .65 .70 .70 .70 .70 1.00 1.00 1.45 1.60 1.25 1.25 1.35 1.40 1.60 1.45
Goober A-WB A-SB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-WB 13-WB 13-WB 13-WB 19-WB-DF 20-WB-DF 24-IB 40-WB-DF 82-N-SB-DF 82-N-SB-DF	F-1110 F-1283 F-1264 F-1265 F-1265 F-1265 F-271 F-1320 F-1320 F-1320 F-1320 F-1226 F-1232 F-448-1 F-448-1 F-1246 F-125 F-127 F-127 F-127 F-128 F	R—F-2: -R—F- -R—F- -R—F- -R—F-4 R—F-4 R—F-4 R—F-4 R—F-4 R—F-4	98-L 1301-I 1223-L 1225-L 1229-L 1231-L 31-L 43-L 49-L 63-L 83-L 95-L 912-L	\$.65 .70 .70 .70 .70 .1.00 1.00 1.45 1.65 1.05 1.25 1.35 1.40 1.40 1.45
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-WB 13-WB 13-WB 19-WB-DF 20-WB-DF 20-WB-DF 40-WB-DF 40-WB-DF 82-N-SB-DF 82-N-SB-DF	F-1110 F-1283 F-1263 F-1265 F-1265 F-1265 F-271 F-1300 F-1300 F-1232 F-1300 F-1232 F-444-1 F-148-1 F-448-1 F-1448-1 F-1444-1 F-148-1 F-144-1 F-148-1 F	R—F-22 -R—F- -R—F- -R—F- -R—F-4 R—F-4 R—F-4 R—F-4 R—F-4 R—F-4 R—F-4	98-L 1301-I 1223-L 1225-L 1225-L 1231-L 31-L 43-L 49-L 63-L 95-L 95-L 83-L 83-L	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.45 1.60 1.05 1.25 1.35 1.35 1.40 1.40 1.45 1.45 1.45
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-WB 13-WB 19-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-SB-DF 40-WB-DF 40-SB-DF 83-N-SB-DF 83-N-SB-DF 84-N-SB-DF	F-1110 F-1283 F-1264 F-1265 F-1265 F-1270 F-271 F-1300 F-1300 F-1232 F-1320 F-1232 F-448-1 F-1448-1 F-1448-1 F-1444-1 F-1444-1 F-1448-1 F-1444-1 F-148-1 F-15-1 F-1	R—F-2: -R—F -R—F -R—F -R—F-4 -R—F-4 -R—F-4 -R—F-4 -R—F-4 -R—F-6 -R—F-6 -R—F-6	98-L 1301-I 1223-L 1225-L 1225-L 31-L 43-L 43-L 43-L 83-L 912-L 83-L 83-L 83-L	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.45 1.60 1.05 1.25 1.35 1.35 1.40 1.40 1.45 1.45 1.45 1.45
Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-WB 13-SB 19-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 83-N-SB-DF 82-N-SB-DF 83-N-SB-DF 83-N-SB-DF	F-1110 F-1283 F-1264 F-1265 F-1265 F-1270 F-271 F-1270 F-1270 F-1230 F-1230 F-1230 F-1230 F-1230 F-1230 F-1448-1 F-1448-1 F-1448-1 F-1448-1 F-1452 F-1452 F-15715-1 F-1682-1 F-682-1 F-682-1 Tracto	R—F-2: -R—F -R—F -R—F -R—F-4 -R—F-4 -R—F-4 -R—F-4 -R—F-6 -R—F-6 -R—F-6 -R—F-6 -R—F-6 -R—F-6	98-L 1301-I 1223-L 1225-L 1225-L 1231-L 31-L 43-L 43-L 43-L 83-L 83-L 83-L 83-L 83-L 83-L 83-L	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.05 1.25 1.35 1.35 1.40 1.40 1.45 1.45 1.45 1.45 1.45
Goober A-WB A-SB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-SB 13-WB 13-WB 13-WB 13-WB 13-WB 14-WB-DF 20-WB-DF 24-IB 40-WB-DF 40-SB-DF 40-SB-DF 82-N-SB-DF 82-N-SB-DF 82-N-SB-DF 84-N-SB-DF 84-N-SB-DF 7-906-A F-906-A	F-1110 F-1283 F-1264 F-1265 F-1265 F-1265 F-1270 F-271 F-1300 F-271 F-1300 F-1230 F-1232 F-432- F-1484 F-1484 F-448- F-448- F-1484 F-484- F-484- F-154 F-154 F-1682- F-1682- T-1715- T	R—F-2: -R—FR—FR—FR—F-4 -F4 -F4 -F4 -F4 -F6 -	98-L 1301-I 1223-L 1225-L 1225-L 1231-L 31-L 31-L 43-L 43-L 63-L 83-L 83-L 83-L 83-L 83-L S3-L S3-L S3-L	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.25 1.35 1.35 1.40 1.40 1.45 1.45 1.45 1.45 1.45 1.45 1.45
Goober A-WB A-SB A-SB	F-1264 F-1265 F-1265 F-1265 F-1266 F-1265 F-1270 F-1270 F-1270 F-1224 F-1280 F-1232 F-1232 F-1232 F-1244 F-1244 F-1244 F-1244 F-1244 F-1244 F-1244 F-125 F-125 F-125 F-125 F-127 F-1268 F-127 F-127 F-1288 F-1288 F-1288 F-1288	R—F-2: -R—F- -R—F- -R—F- -R—F-4 R—F-4 R—F-4 R—F-4 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6	98-L. 1301-I 1223-L 1225-L 1225-L 1231-L 31-L. 43-L 43-L 63-L 83-L 83-L 83-L 83-L 83-L Long Short	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.05 1.25 1.35 1.35 1.40 1.40 1.45 1.45 1.45 1.45 1.45 1.45
Goober A-WB A-SB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB BC-SB-DF E-WB-DF 3-X 10-SB 10-WB 13-SB 13-WB 13-WB 13-WB 13-WB 13-WB 13-WB-DF 20-WB-DF 24-IB 40-WB-DF 24-IB 40-WB-DF 82-N-SB-DF 82-N-SB-DF 82-N-SB-DF 81-N-SB-DF	F-1110 F-1283 F-1264 F-1265 F-1265 F-1265 F-1270 F-1271 F-1300 F-1224 F-1320 F-1232 F-1325 F-237- F-1444 F-1484 F-1484 F-1462- F-1444 F-1454 F-1544 F	R—F-22 -R—F- -R—F- -R—F-4 R—F-4 R—F-4 R—F-4 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6	98-L 1301-I 1223-L 1225-L 1225-L 1231-L 31-L. 43-L 49-L 63-L 95-L 83-L 83-L 83-L 83-L 1309-L	\$.65 .65 .70 .70 .70 .1.00 1.00 1.00 1.45 1.05 1.25 1.25 1.35 1.40 1.60 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45
No. of Plow No. 6. Goober A-WB A-SB AC-WB AC-SB B-WB-DF B-SB BC-WB B-SB BC-WB 10-WB 10-WB 13-SB 10-WB 13-SB 19-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 20-WB-DF 50-WB-DF 40-WB-DF 40-WB-DF 40-WB-DF 40-WB-DF 82-N-SB-DF 83-N-SB-DF 83-N-SB-DF 84-N-SB-DF 84-N-SB-DF 85-N-SB-DF 98-3-H 99-3-H-DF 508-509-TB 512-513-TB	F-1110 F-1283 F-1264 F-1265 F-1265 F-1265 F-1270 F-1270 F-1270 F-1226 F-1320 F-1320 F-1226 F-1226 F-1226 F-1226 F-1232 F-448-1 F-1484 F-1244 F-1244 F-1244 F-1257 F-682-1 F-683 F-683 F-683 F-137 F-683 F-1257 F-683 F-1257 F-683	R—F-2: -R—F- -R—F -R—F -R—F-4 R—F-4 R—F-4 R—F-4 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6 R—F-6	98-L 1301-I 1223-L 1225-L 1229-L 1231-L 31-L 43-L 49-L 63-L 95-L 012-L 83-L 83-L Long Short 1309-L	\$.65 .65 .70 .70 .70 .70 .1.00 1.00 1.00 1.45 1.60 1.25 1.35 1.35 1.40 1.45 1.45 1.45 1.45 1.45 1.45 1.50 1.50 1.50 1.50 1.50

512-513-TB GY-300 1.45 524-IB GY-310 1.45 WOOD BEAMS A-B-10-13 \$3.85 19-20-E-40-40X 4.15 40XX 4.95 CLEVISES Wood Beam— Price A \$.35 B .90 D 1.25 Steel Beam— No. 2 .95 No. 90A 1.40

No. 4-91	
WOOD HANDLES (S	Single)
No. 1 R & G, each	

WHEELS

No. 11-1-H. Str. Standard for A.	
AC. B. BC and 10 WB Plows.	1.65
No. 12-2-H Str. Standard for 82,	
83, 84 and 91 SB Plows	1.95
No. 18-1-H, Str. Standard for A,	
B. 10 and 13 SB Plows	1.95
No. 20-2-H, Brace Standard for	
19, 20 E, 40, 40X and 98	
plows	2.50
No. 72 Universal Brace Standard	
for 19, 20, 40 and 40X SB	
Plows	2.20
No. 508 Str. Standard for 512	
and 513 Plows	1.65
No. 524 Wheel for No. 524 Plows	1.10
Standards, one-horse, straight	1.00
Standards, two-horse, all kinds.	1.80
Wheels only, one-horse	.55
Wheels only, two-horse	.85
Hubs	.35
Center pins or hub bolts	.05
Note-In ordering wheels, say if	
for right or left-hand wood or	
steel beam plows.	
2	
CHILLED JOINTERS	

	1200
No. 60 for 10-13 WB Plows,	
R or L\$3	3.60
No. 61 for 10-13 SB Plows,	
	3.85
No. 63 for E, 19, 20, 40 and 40X	
	4.40
No. 181 for 19, 20, 40 and 40X	4 0 =
	4.95
Jointer Points, chilled, all	25
numbers	.35
Jointer Mouldboards	.55
1-horse Jointer Holders, Steel	.80
Beam	
	1.60
2-horse Jointer Holders, Steel	1.60
	1.95
	1.20
	1.60
I wo-noise Jointer Standards	2.00

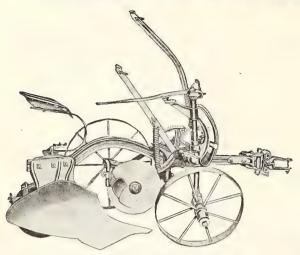
HILLSIDE PLOW REPAIRS

Plow Nos.	Chilled Mouldboard	Steel Mouldboard	Standards	Landsides	Chilled Shares	Set
512	4.95	9.10	6.25	1.40	1.15	3.30
513	5.50	9.10	6.25	1.40	1.25	3.30
524	5.50	9.10	8.25	1.40	1.25	2.75

BOLTS

For shares, mouldboards and landsides, jointer and coulter standard No. 5, end of handle brace, each	.05
For jointer and coulter holder,. No. 6, wheel standards, straight, end or beam, wheel. hub, No. 14-A clevis bolts, Nos. 20 and 40 steel beam and land- side bolts, No. 99 S. B. jointer holder bolts, each	.10
For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x23/4, each	.15

JAMES OLIVER NO. 11 SULKY PLOW



This sulky is the most popular plow of its kind evbuilt. It is used on tens of thousands of farms throughouthe world and is unequalled for simplicity, lightness of drafease of operation and above all, field performance. Turn square in-and-out corners with the bottoms cutting full width and depth. Furnished in both right and left hand.

Regularly equipped with weed hook, steel evener and No. 90 Chilled Jointer.

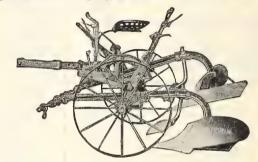
P	T
Right Hand—All Chilled—12-inch	1
Right Hand—All Chilled—14-inch	2
Left Hand—All Chilled—14-inch	2
For tongue and neckyoke, add	3
For combination rolling coulter and jointer, add	3
For chilled jointer instead of plain rolling coulter,	
deduct	1
For plain rolling coulter add	1

OLIVER NO. 23-A REVERSIBLE SULKY PLOW

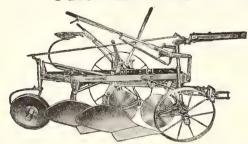
Great strength, ease of operation and quality work are advantages of this two-way sulky. A heavy frame and beams give the great strength needed for plowing in stumpy and stony land. There is a wide range of pole shift to keep the plow cutting full width on hillsides. A horse lift put in operation by a foot trip when walking makes operation easy. A simple adjustment adapts this plow for use with two or three horses.

Regularly equipped with two and three horse steel evener, tongue, neckyoke, weed hooks and chilled jointer.

	Price
No. 23-A—All Chilled—12-inch	.\$104.00
No. 23-A—All Chilled—12-inch	105.90
No. 23-A—All Chilled—14-Inch.	2.20
For plain rolling coulters, add	. =:=:
For combination rolling coulters and jointer, add	. 7.00



OLIVER NO. 1 IMPROVED GANG PLOW



The Oliver No. 1 Improved gang plow is so constructed that thitch can be placed directly between the beams when four hors are used. None of the horses walk on the plowed land. There is natural draft, and freedom and comfort for the horses. Stro: rigid construction—a powerful foot lift and easily operated leve convenient to the driver are other advantages of this plow.

Regularly equipped with a 4-horse evener, weed hooks, tongue, neckyoke and chilled jointers.

No.	1 Imp.—All Chilled—12-inch	8.
No.	1 Imp.—All Chilled—14-inch	0.
For	plain rolling coulters, addcombination rolling coulter and jointer, add	2.
For	combination rolling coulter and jointer, add	7.

OLIVER NO. 17-A GANG PLOW

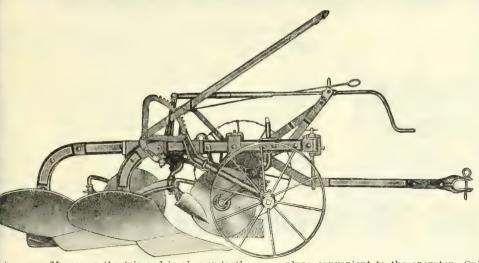
The Oliver No. 17-A is fitted in type and size for use in orchards, gardens, vineyards, small fields and other places of a like nature. The land wheel can be brought within the cut of the rear bottom. Easy to handle and to adjust. Furnished with two or three bases.

Regularly equ	ipped with	a guide	handle.
---------------	------------	---------	---------

			Price
2-Base	Chilled	 	\$49.00



LIVER No 9-XX ADJUSTABLE TRACTOR PLO



The Oliver No. 9-XX adjustable plow can be set so that the bottoms will cut 11", 12", 13" or 14". When the ground is hard and plowing is difficult the bottoms can be set to cut narrow; when plowing conditions are favorable they can be set to cut at full width, or 14" per bottom. The adjustment is made by expanding or closing the frame.

An Easily Operated Plow

An Easily Operated Plow

A powerful, ball-bearing
screw control so multiplies human effort that it makes depth
adjustment rapid and easy. It
is amaction almost without effort to pull the trip rod for
raising and lowering the plow
bottoms. The handy leveling
lever is another advantage.
Adjusting plowing depth, pulling the trip rod and leveling
the bottoms—it is all done
rapidly and easily.

A Trip Red for the Power Lift

A Trip Rod for the Power Lift The use of a trip rod elim-nates troublesome work with

The use of a trip rod eliminates troublesome work with the dependable power lift into action for raising and lowering the bottom. Note another advantage of this plow ich is the position of the wheels to carry the weight of the plow, eliminating drag weight and lessening draft.

The Ball Bearing, Depth Adjusting Screw

The ball-bearing depth adjusting screw is an exclusive Oliver feature found only on Oliver tractor tools. It has a wide age of adjustment and plowing depth can be changed with the outfit moving or standing to suit different soil conditions r instance when the outfit strikes a soft, boggy spot or the bottoms encounter an obstruction, a few turns of the screw il raise the bottoms. The load on the tractor is removed and the outfit moves forward, without loss of time.

The Draw Bar

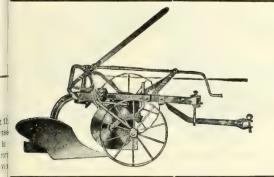
The draw bar is fastened well back on the frame at the center of draft and is adjustable up and down and sidewise so it it is possible to secure just the correct line of draft and the right degree of penetration

The Advantage of Great Clearance

The Oliver No. 9-XX has unusual clearance under the bottoms and between the bottoms. This is a decided advantage on plowing under high weeds, corn stalks, wheat stubble, etc.

en plowing under high weeds, corn stalks, wheat stubble, etc.

Price



OLIVER No. 134-XX TRACTOR SULKY

The Oliver No. 134-XX sulky finds favor among farmers who practice deep plowing or who must do their plowing in soil that is very hard or weedy. The general construction of this plow is the same as the Oliver No. 9XX plow. Its operation is made easy and convenient by means of the powerful depth-adjusting screw and the handy leveling lever. The draw bar has the same wide range of adjustment fitting this plow for use with any standard light tractor. The 3-ply, heat-treated beams are extra strong.

Regularly equipped with combined rolling coulter and jointer.

No. 134-XX--14 or 16-inch Steel or Comb....... Price \$92.50

No. 134-XX-14 or 16-inch All Chilled..... Price 90.75

Oliver No. 24 Grading Plow



An extremely strong iron beam plow for road break-, excavation work or the heaviest of field work. The im standard and frog are one piece. This plow has a lled mouldboard and a deep suck cutter share.

Oliver No. 25 Pavement Plow

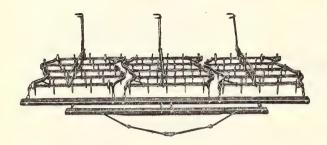


A popular plow for tearing up macadamized roads, streets, gravel roads, etc. Built extra strong and rigid, the beam standard and handle braces are cast in one piece. The pick is both reversible and adjustable All wearing parts are renewable.

Regularly equipped with a gauge iron.

Reversible Steel Point or Spike...... Price 4.75

OLIVER UBC SPIKE TOOTH HARROW



The Oliver UBC harrow is a very strong, closed-end harro The side rails furnish extra strength and act as guards who working among trees or vines. Furnished with either horse tractor hitch.

HORSE HARROW Regularly equipped with evener bar

Number		Description	Pri
JBC-50-Tooth		2-section	\$19.
JBC-60-Tooth		· 2-section	22.
JBC-75-Tooth		3-section	31.
JBC-90-Tooth		3-section	34.
			1

TRACTOR HARROW

Regularly equipped with a tractor hitch

Number	
UBC-9	0-Tooth

Description 3-section Pri

OLIVER PB AND PBV SPRING TOOTH HARROWS

These are very strong and rugged implements well fitted for the hard work of spring-toothing. An inverted T-bar frame shod with a thick steel runner gives great strength and durability. The PB series are ordinary field harrows; the PBV are for vineyard and orchard use and fitted for that work by special levers which do not extend above the harrow when it is in working position. Furnished with horse or tractor hitch. The levers are reversible and are set on the rear of the sections for horse use and on the front for tractor use.

HORSE HARROWS

	with hand								
15-Tooth,	2-section	with	draw	bar	 	 	 		. 25.95
17-Tooth,	2-section	with	draw	bar	 	 	 		. 27.50
23-Tooth,	3-section	with	draw	bar	 . ·	 	 - 1		. 38.75
25-Tooth,	3-section	with	draw	bar	 	 	 è.		40.35

Oliver PB 3-section Horse Harrow

TRACTOR HARROW

21-Tooth, 3-section with draw bar and tractor hitch.\$40.5

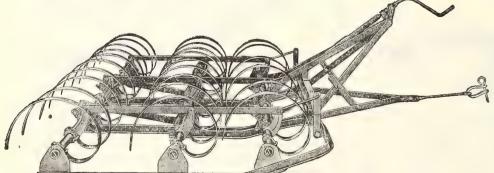
Note: PB and PBV Harrows are the same price



Oliver PB 3-Section Tractor Harrow



OLIVER TPB TRACTOR SPRING TOOTH HARROW



This harrow is leverless. handy and quick-acting screw used to raise and lower the teet and to regulate depth of penetrition. The inverted T-bar framis equipped with a heavy sterunner % inches thick. The hitcis adjustable so that the harrowill run level under all condition TPB—25-Tooth, 3-section

Price	960

OLIVER HDH DISC HARROWS—SINGLE AND DOUBLE

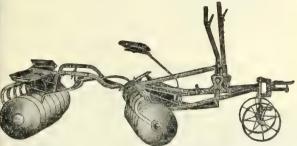
No other farm tool equals the disc harrow for quick and cient seed bed preparation. These harrows penetrate easily cause the pull of the draw bars is downward. The conuction at each wearing point is especially durable.

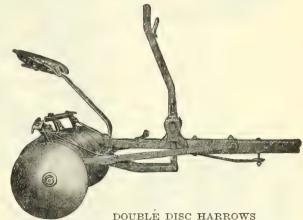
SINGLE DISC HARROWS

egularly equipped with hard oil cups, rigid scrapers, 2 or 3-horse evener, seat and rigid pole.

ł .	Number of	Cut in	Size of	
ımber	Discs	Feet	Discs	Price
:DH-4	8	4	16"	\$43.90
[DH-5	10	5	16"	47.50
IDH-6	12	6	16"	52.10
IDH-4	8	4	18"	46.90
IDH-5	10	5	18"	51.25
IDH-6	12	6	18"	56.60

(*) Equipped with off-set irons and 3-horse eveners,

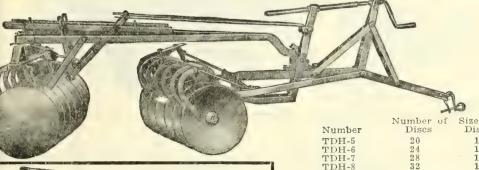




Consists of single disc harrow and tandem complete, hard oil cups, rigid scrapers, 4-horse eveners, seat and forecarriage.

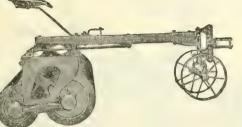
	Number of	Cut in	Size of	
Number	Discs	Feet	Discs	Price
HDH-4	16	4	16"	\$ 100.90
HDH-5	20	5	16"	108.15
HDH-6	24	6	16"	113.85
HDH-7	28	7	16"	122.65
HDH-8	32	8	16"	129.90
HDH-4	16	4	18"	106.90
HDH-5	20	5	18"	115.65
HDH-6	24	6	18"	122.85
HDH-7	28	7	18"	133.15

OLIVER TOH TRACTOR DISC HARROW



A tractor harrow that is noted for its durability and its quality of work. This harrow digs because the pull of the draw bars is downward. Easily operated from the tractor seat by means of a handy, quick-acting

	Number of	Size of	Cut in	
Number	Discs	Discs	Feet	Price
TDH-5	20	16"	5'	\$ 92.50
TDH-6	24	16"	6'	97.65
TDH-7	28	16"	7*	108.75
TDH-8	32	16"	8*	121.90
TDH-5	20	18"	5'	100.00
TDH-6	24	18"	6'	107.15
TDH-7	28	18"	7'	119.25



Equipped with a horse hitch



Equipped with a tractor hitch

OLIVER ROLLER PULVERIZER

The Oliver roller pulverizer crushes clods and firms the soil. It leaves the soil in shape to receive and retain moisture. By using the pulverizer directly after the disc harrow it leaves the ground in good shape for planting. Also used to good advantage to firm the soil about the roots of growing plants. The weight is automatically shifted to the front or to the rear gangs as it is needed. Easily converted from a horse to tractor pulverizer.

	Length Over	Actual Rolling	Number of	
Number	A11	Width	Wheels	Price
NTP-7 Tractor	7*	6'-1"	37	\$ 76.60
NTP-8 Tractor	8'	7'-1"	43	82.50
NTP-10 Tractor		9'-1"	55	101.25
NHP-6 Horse	6'	5'-1"	31	75.95
NHP-7 Horse	7'	6'-1"	37	83.45
NHP-8 Horse	81	7'-1"	43	89.40

62.85 59.10





10			
11	A Alama	This cultivator is built shor	
,		and sturdy and the hitch i	
1000		close and direct. The gangs ex	
	CHIST	tend back only a short dis	
100		tance beyond the wheels. Thi	
1		eliminates dipping and side-slip	
		ping and assures uniform wor	
1		when going into depressions o	
		over slight rises in the ground	
		The gang heads work on	i
	1) 10	heavy steel bar. This wid	ı
		bearing gives great durabilit	ı
		and rigidity. It is an extremel	
		simple and advantageous fea	
_		ture and does away with an	
		possibility of the gangs gettin	
		out of alignment. In the single	
7		piece, heat-treated axles ther	
		are no weak parts to break o	
		wear loose	
1.	New and improved cult	ivator, better designed, more per	
	manently constructed, ea	asier operated—it is the Olive	
	No. 35.	operated it is the only	
	With the new pedal gr	lide construction it was possibl	
	to make an extremely si	mple cultivator using fewer an	
	stronger parts. Strength	to spare, and in addition, open	
	ation could not be made	easier, so small is the effort nec	
		to the child in	

Every farmer is entitled to have his cultivating wor done easier. With the Oliver No. 35 it can be done bot easier and better.

No. 35 8-shovel, spring trip gangs..... 66.6 Front Disc Attachment 12".... Tobacco Hoe Attachment ...

OLIVER No. 2 IMPROVED CULTIVATOR

No. 35 6-shovel, pin break gangs.....

No. 35 6-shovel, spring trip gangs. No. 35 8-shovel pin break gangs.....

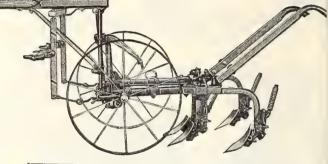
A popular and well established favorite where either large or small acreages of cultivated crops are raised. Easy on the man because of the great ease with which it is handled. Lifting the gangs or shifting them to or from the row is an action almost without effort. Easy on the horses because of light draft and there is no neck weight. There is not a single unnecessary part; there is nothing to get out of order.

No. 2 FEC Imp. 6-shovel spring trip gangs, Pipe Beam....\$47.50

No. 2 FO Imp. 4-shovel, spring trip gangs, Pipe Beam.... 43.75

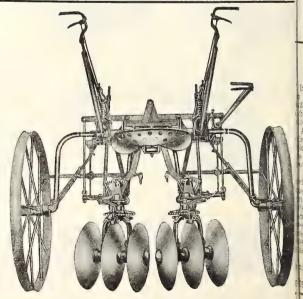
No. 2 HO Imp. 6-shovel, pin break gangs, Pipe Beam.... 41.90

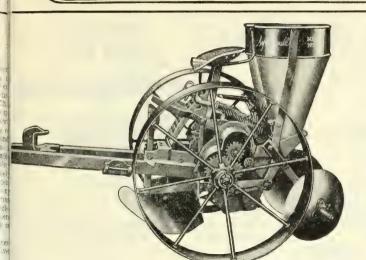
No. 2 LPO Imp. 8-shovel, pin break gangs, Channel Beam 39.20



OLIVER NO. 25 CULTIVATOR

This is a light draft, easily operated and durable disc cultivator. It is equipped with the famous Oliver seat guide which pivots on ball and roller bearings, assuring easy shifting of the gangs. Good work can be done on hillsides and in crooked rows. The disc gangs swivel at two points. Adjustments are made without a wrench and without leaving the seat. The disc can be set to cultivate deep or shallow and as close to or far away from the row as desired. They are reversible for barring off or for throwing dirt to the row. Individual levers set the cultivating depth of each gang independently. The action of the main lever balances the cultivator.





NEW ASPINWALL No. 5 POTATO PLANTER

About forty vears ago, Mr. L. A. Aspinwall introduced the Automatic Potato Planter. The agricultural world was startled. Potato planting by hand was tedious, inaccurate and uncertain. Mr. Aspinwall's efforts were doubted at first, but were soon greeted with widespread enthusiasm and recognition. His Potato Planter proved its practicability, was developed and grew better and better. In 1921 the New Aspinwall No. 5 was invented. This is indeed the most perfect potato planter ever built—it leads everything in the field—and has made potato planting a science—is absolutely accurate in every degree at an immeasurable saving of time and labor. time and labor.

The improvements in the pickers and concaves have

made such excellent results possible—the misses have been reduced to about one in a thousand potatoes, with uniform properly cut seed.

The Aspinwall Digger is favorably known throughout the po-

ASPINWALL POTATO DIGGER

tato growing sections of the world enjoying high prestige as it is unsurpassed in material, workmanship, serviceability and long life, It stands the wear and tear required from a machine of this type. The cost of upkeep is consequently low, which alone is of great value to the farmer. The Aspinwall Digger is the economic digger to use and the purchaser's investment in it is one of profit to him. The machine guarantees long service. The lightness of draft for which the Aspinwall Diggers have

become so well known is in a large measure directly attributed to our system of bearings. The gear drive is the simplest, most powerful and efficient transmission of power for digger purpose on account of the short distance from center to center

6-Foot Digger.....\$135.00

OLIVER TRACTOR DISC PLOWS

In conditions of extremely hard ground tough, waxy land where mouldboards ill not scour, in fields with buried logs or her obstructions, Oliver tractor disc ows solve the plowing problem.

Advanced design overcomes the objectorable features commonly found in disc ows. In using Oliver disc plows you will greatly pleased with their satisfactory ork.

ork.

A power lift that operates on all three heels, raising all discs to a high, level osition, ability to penetrate and stay in ard ground at full depth, strength for hie most difficult conditions, ease of opation, free running discs, durable disc arings, disc brackets that afford good earance when plowing full depth, new sigu, mouldboard shape disc scrapers that turn the soil with a pulverizing effect, increasing the quality of the plowing—lese are a few of the features of Oliver disc plows that guarantee complete satisfaction.

Oliver tractor disc plows have established a new standard for disc plow service, proving their superiority in public defonstration as well as on farms

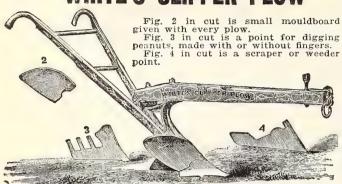
Price

B 42-2-24 in. Discs..... \$89.75 DB 43-3-24 in. Discs......



1/2 C.

GLIPPER PLOW



Prices Clipper Plow and Extras.

No.	1	an	đ	2,	Ca	st,	On	e-I	Iors	e.						 		 	 		\$	6.00
No.	1	2, (Сa	st,	\mathbf{T}	wo.	Ho:	rse								 	 		 ٠.	٠.	1	10.75
Cast	t :	$_{ m Poi}$	nt	f	or	CIij	ppei	· F	'low	, I	er	I	001	un	d	 	 					.08

STEEL BEAM MIDDLE BURSTER



The Beam has a high throat, and wings are shaped especially for black, waxy lands. Wings and points are of high carbon steel. Points have reinforced nose. A strong, service-

able tool for two, four or six norses.	Our
We can furnish them as follows:	Special Price.
Cuts 8 inches; weight 77 pounds	\$12.25
Cuts 10 inches: weight 82 pounds	13.00
Cuts 12 inches; weight 87 pounds	13.75
Cuts 14 inches; weight 83 pounds	14.50
Cuts 16 inches: weight 98 nounds	10.05

Farmers' Friend Plow PRICES GENUINE FARMERS' FRIEND PLOW. No. 1 Hillside ... No. 2 Hillside.... No.

No. 7½ R 8.15 No. 8 R. and L. with	No. 3 Hillside	8.50
clevis	Polished Castings, 1b.,	9½c
"BOY" DIXIE PLOW	"GIRL" CHAMPION PI	
'Boy" Dixie\$4.50	No. "Girl"	.\$6.00
No. X 5.75	No. A	. 6.50
To T 600	NTO 2	

Castings, per lb., 81/2c.; Polished, 10c. Plain Plain Castings, per 1b., 8c.



It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it wil withstand the hardest usage. It is the favorite plow of it class. It is built in right hand only, and cuts about 7 inches.

Frank Beasley's Patent Disc Attachments

TO FIT ANY FIVE-TOOTH CULTIVATOR

If you have a good five-tooth cultivator, you can secure these parts to attach to same and make your old cultivator as up-to-date as it would be possible to have it. These Disc Attachments come in gangs of either six or eight Discs or can be had in combination of six and eight discs.

Frank Beasley's **Patent Disc Cultivators**

the extras tha can be used o same) can be se up and used for more style of work than any cultivato ever invented. In fact, ther is no style cultivating amon crops but what can be done better wit these cultivators. It can also be use as a one-horse harrow. No crop to small to be successfully cultivated wit the teeth or shovels, and neve get too large to be successfull cultivated with the discs.

One

Cultivators

o f

(wit

This Cultivator is not too sma for the largest grower, not to large for the smallest grower.

The material used is the high est grade, nicel finished and pain: ed, and guarantee to work as repre sented.

There are thousands of them now in use, all giving satisfaction.

The Disc attachments are sold separately, as listed opposite.

Six discs go between rows 2½ feet wide and up; Eight discs between row

Snatch Rod regularly fur-nished with No. 2½ and No. 3.

HASLUP WHEEL SCRAPERS

account of their splendid construction and convenience. The wood wheels are made of thoroughly seasoned stock and are very strong. Metal wheels can be furnished on order. Tongues, best quality hardwood, heavily ironed, with double steel draft bars.

Size of Bowl.

			in.	in.	in.	in.	in.	in.
	9	Cu. ft.	. 36	36	12	36	3x1/4	11/2
	13			38	$13\frac{1}{2}$	40	3x5-15	$ \begin{array}{c} 1\frac{1}{2} \\ 1\frac{3}{4} \\ 1\frac{3}{4} \end{array} $
No. $2\frac{1}{2}$	$14\frac{1}{2}$	Cu. ft.	41	38	14	44	3x5-16	184
No. 3					16		3x5-16	13/
No. 1 —	-Weig	ht, 450) lbs				Price,	866.75
No. 2 —	-Weig	ht, 600	ibs				Price,	80.00
No. 2½—	-With	Snate	n Rod,	weigh	t 675	lbs	Price,	84.75
No. 3 —								93.50
Wood T	Joubl	otrong .	and Ma	OF VO	ra 60	00	en de seus	

steel Square axles are used, arched high, anindles turned and polished

The No. 24 Iron Beam, Right Hand Contractors' Plow

strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam. With wheel jointer or hanging coulter as desired. R. H.

Haslup Round

Back, Solid Pressed Drag Scrape

Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.

Price, Plain, \$32.00 with Wheel, \$34,75 Above prices include one extra Share

REPAIRS FOR CONTRACTORS' PLOWS. Price List on Page 133

Prices with 2 Steel Runners Capacity, 7 Cu. ft. 5 Cu. ft. 3½ Cu. ft. Size. Weight. No. No. No. \$10.50 20 The 10.00 For extra Bottom Plate add \$1.00

LIGHT DRAG SCRAPER

Size.	Capacity.	Weight.	Price
No. 11		90 lbs.	\$9.00
No. 21		80 lbs.	8.75
No. 31	3½ Cu. ft.	70 lbs.	8.50

OLIVER CONTRACTORS' PLOWS

No. 1 Oliver Wood Beam Road and Grading Plow all steel with standing Coulter, Gauge iron.

Price, \$67.50.

No. 25 Oliver Iron Beam Pavement Plow with Gauge Iron.

Price, \$46.75.

RESNO

wrench required



THREE SIZES —4-Horse..... —2 or 4-Horse... —2-Horse...

Approximate Weight. 300 lbs.

Price. \$34.50 31.50 30.00

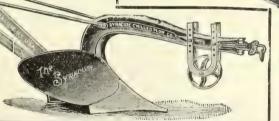
Syracuse Contractors' Plow No.

One of the best two-four horse contractors' plows. A great favorite.

Syracuse Pavement Plow No. 98

Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted

Hard iron wearing parts. Extra
wheavy beam, share
and strip, steel
wheel standard. Turn furrow 5 to 9 inches deep, 12
to 15 inches wide. For
reneral grading purposes.
Two to four-horse. Weighs
145 lbs. with wheel, \$32.00





for tearing cobblestones and macadam pavements. Four or six-horse. Weight, 265 lbs. Without extra point. Price, \$40.00

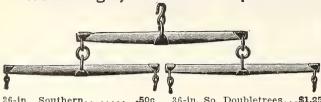
SYRACUSE CONTRACTORS' PLOW No. 99
Four to Eight Horses, Weight, with Shoe,
310 lbs. Without extra Share \$70.00

inches.

1 1/2 x 9



Wood Single, Double and Tripletrees



-				
26-	in. Southern	.50c	36-in. So. Doubletrees\$	1.25
28	in. Extra Nailed	.65	36-in, Hvy. Doubletrees.	1.50
28	in. Ex. Nailed, 3 Hks.	.75	40-in. Hvy. Doubletrees.	1.75
30-	in. Hvy. Singletrees	.80	Extra Hvy. Tripletrees.	3.50
32.	in. Hvy. Singletrees	.90	Singletrees, less irons	.40
34.	in. Hvy. Singletrees			.60
	Wagna Singlitries	· 6	inches	
	the second secon		The Control of the Co	

WOOD NECK YOKE

No. 6-40-inch				\$2.25
WAGON	SINGLE	AND DOUBL	ETREES.	
Wagon Singletrees	s, No. 9 ½,	each		\$1.50
Wagon Doubletree	s, No. 121/2	, each		1.75
Doubletrees and S	ingletrees,	with neck yok	e for low-dov	wn
waren trucks, p	er set			\$5.75

STEEL SINGLE AND DOUBLETREES

Size 2-Size 1-Doubletree, 38 inches. Singletrees, 30 inches. Retail, Single Set... \$5.50

Doubletree, 40 inches. Singletrees, 34 inches. Retail, Single Set... \$6.00

U SINGLE, DOUBLE AND TRIPLETREES Prices: Singletrees, with Maleable Hooks, 24-inch, 75c.; 26-inch, 80c.; 28-inch, 85c.; 30-inch, \$1.10. Doubletrees, with Hooks, 36-inch, \$1.25. Steel Tripletrees Set, complete per set of 6 pieces, \$6.00.

IMPROVED EUREKA THREE-HORSE EQUALIZER
BIGHT HAND ONLY.

This Equalizer, while simple in construction, is strong and durable; is perfect in equalization, and absolutely removes all side draft. Can be changed very quickly from a three-horse to a dubletree by removing the long bar. Price, \$9.50

SET OF WELDED CLIPS

CLIPS FOR DOUBLETREES.

No. 77—Southern; one %-inch Center Clip and Hook, with hook and two ½-inch Clips. Set, 50c.

No. 76—Pennsylvania; one %-inch Center Clip and Hook, with %-inch hook and two %-16-inch End Clips. Set, 60c.

CLIPS FOR SINGLETREES.

No. 75—One Center ½-inch Clip, and two %-inch End Clips; used on 28-inch Singletrees. Set, 30c.

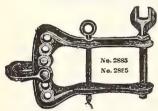
No. 74—One Center 9/16-inch Clip, and two 7/16-inch End Clips. Set, 35c.

Set, 35c.

No. 74—One Center 5%-inch Clip, and two 7/16-inch End Clips, Set, 35c.
No. 73—One Center 5%-inch Clip, and two 7/16-inch End Clips; used on 34 and 36-inch heavy Singletrees. Set, 40c.
No. 72—One Center 3%-inch Clip, two ½-inch End Clips. 45c.

Clips for Tripletrees-Three Pieces. Per Set, \$1.50.

Malleable Clevises





No. 2885.—2¼-in. beam; 2%-in. from center of wrench to center of pin; 6¾-in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. List price, doz., \$6.00. Retail price, each, 35c.

No. 2895.—2½-in. beam; 3%-in. from center of wrench to center of pin; 7½-in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows. List price, doz., \$8.00. Retail price, each. 45c.

No. 2854.—2-in. beam; 5¾-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on Girl Champion and similar cast plows. List price, doz., \$3.50. Retail price, each, 20c.

No. 2847.—2-in. beam; 5%-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on "Boy" Dixie and similar cast plows. List price, doz., \$3.50. Retail price, each, 20c.

"Boy" Dixie and similar cast proves. List price, acab, 20cc.
No. 2806 B—End Clevis.—¾-in. inside measure; 3-in. extreme length. List price, doz., \$2.00. Retail price, each, 10c. No. 2800—Flow Link.—3-in. long, 2½-in. wide. List price, doz., \$2.00. Retail price, each, 10c.



inches, Side Bend, per pair... Repairs For Syracuse Plows

feet long, per pair

Wood Chilled		Shares.	Lands.	Moulds.	Beams.	Standards.	Shins.	Slip shares.	Slip points.
52 1 Horse R			\$1.10	\$3.35	\$3.25	\$2.75			
objeceg. 2	" "	.80	1.55	5.00	4.75	4.00	.70]	1.00	.20
57 2 or 3 H	"	.85	1.70	5.50	4.75	4.40	.75	1.05	.20
95 2 Horse L.		.75	1.45	4.751	4.50	3.85		.95	.20
96 2 "	**	.80	1.55	5.00	4.75	4.00		1.00	.20
97 2 or 3 H	ex ee	.85	1.70	5.50	4.75	4.40		1.05	.20
501	44 44	.90	1.50	5.50	4.15	4.00	[1.10	.20
502	66 66	.85	1.50	5.00	4.15	3.75		1.05	.20
503	66 66	.85	1.40	4.50	4.15	3.60		1.05	.20
601 R	. H. only	.90	1.50	5.50	4.15	4.00		1.10	.20
602	**	.85	1.50	5.00		3.75		1.05	.20
603	44 66	.85						1.05	.20
_									

Repairs For Syracuse Contractors' Plows

Nos.	For Contractors' Plows, see page 121	Steel shares.	Moulds.	Beams.	Standards.	Shins.
99 98		\$7.75	\$6.00	\$16.50	\$19.25	\$1.10
98		5.50		23.50		
1	Heavy Cast	1.00	5.75	13.50		

Extras for Iron Beams Syracuse Plows

ts ess

No.

No. H	orse.	Common shares,	Cutter shares.	Cast land	Moulds chilled	Beams.	Slip shar	Slip poin
3.78 R. H. only 2 2.78 " " 2 1.78 " " 2 10.78 " 2 20-78 L. H. only 2 30-78 " " 3 15 R. H. only 3 35 L. H. only 3	Horse.	.80 .85 .95 .85 .95	\$1.00 1.05 1.00 1.10 1.00 1.10 1.25 1.30	\$1.10 1.25 1.30 1.45 1.45 2.00 2.00	6,25 5.75 6.25	$egin{array}{c} 8.75 \\ 9.50 \\ 12.00 \\ 9.50 \\ 12.00 \\ \end{array}$	1.05 1.10 1.10 1.25	\$.2 .2 .2 .2 .2

Jointer Points for any of above Syracuse Plows, 35c. Syra

Repairs For Chattanooga Plows

Nos.	No. H	orse.	Flai n Shares.	Cutter Shares.	Slip Nose Shares.	Slips.	Landsides.	Mould- boards.	Beams.	Handles wir Braces, Se	Standards
	2-Horse,				$ 1.05 \\ 1.05 $		$1.50 \\ 1.50$	4.50	4.25	3.25	4.0
	2-Horse, 3-Horse,	S. B W. B			$[1.05]{1.10}$.20	1.50	4.75	4.25	3.25	4.3
		S. B			$[1.10] \\ .50$.20	1.50	$ 4.75 \\ 2.00 $			
	1-Horse,				1 .50 1 .50			2.00			
72	1-Horse,	S. B		.45	.55	.10		2.10			
	2-Horse,			$\frac{1.60}{.75}$			$ 1.10 \\ 1.25$				
65	2-Horse,	S. B	[]	.85	1.05	.20	1.50	4.50	6.50	13.25	4.0
-66	2-Horse.	S. B		.90	1.10	. 20	1.50	14.75	7.50	3.25	4.3

Rolling Coulters, complete, \$5.25; Wheels, complete, \$1.75

Jointers, complete, \$4.00; Bolts for Shares. Landsides, Moulded: Rear Beam Bolts on 1-Horse Plows, 10c. All other Bear Bolts, 15c.

Each, 40c. Each, 25c.

PLOWS



"WIARD" SWIVEL OR HILL-SIDE PLOW

	No. 107 Ti-lit 0 TT 111 CT 1
	No. 127—Light 2-Horse with Cast Mold, Steel Beam\$19.00
	Mord, Steel Beam
1	No. 120-Medium 2-Horse with
	Cast Mold, Steel Beam 26.00
	No. 126—Regular 2-Horse with
	Cast Mold, Steel Beam 27.00
	No. 15X—Light 2-Horse, with Cast
	Moldboard, Cast Beam 22.50
	No. 126X—2-Horse, with Cast Mold-
	board, Cast Beam 24.00

20 20 20 20 20	PRICES WIARD STEEL BEAM PLOWS AND EXTRAS	्रव ।	Weight Lbs. Price of Plow.	Plain	tter	Plain Slip Shares	andslid	Mould	Steel Beam	Handles Pair, Complete	Standards
20 20 20 30 30 30 30	To. 210—R. H. 1-Horse. To. 212—R. H. 1-Horse. To. 215—R. H. 1 or 2-Horse. To. 215—R. H. 1 or 2-Horse. To. 219—R. H. 2-Horse. To. 220—R. H. 2-Horse. To. 220—R. H. 2-Horse. To. 240—L. H. To. 240—R. H. To. 3-Horse. To. 45—R. H. 3 or 3-Horse. To. 45—R. H. 3-Horse. To. 104—L. H. 3-Horse. To. 104—L. H. 3-Horse. To. 106—L. H. 3-Horse. To. 106—L. H. 3-Horse. To. 80—L. H. 2 or 3-Horse. To. 80—L. H. 2 or 3-Horse. To. 80—L. H. 2 or 3-Horse. To. 81—L. H. 2-Horse. To. 90—R. H. 2 or 3-Horse.	4 ½ x 9 5 ½ x 11 6 ½ x 12 7 x 13 9 to 13 11 to 15 11 to 15 11 to 15 11 to 15 12 to 17 11 to 15 12 to 17 11 to 15 12 to 17 11 to 15	60 \$9.25 71 10.25 93 15.00 199 17.00 110 19.50 120 21.00 24.00 21.00 24.00 130 21.50 150 25.00 120 19.75 130 21.50 150 25.00 132 22.00 128 21.00 128 21.00 128 21.00	.85 .95 .85 .95 .95 .85 .85	\$1.00 1 1.00 1 1.00 1 1.10 1 1.00 1 1.00 1 1.00 1 1.00 1	.00 \$.2 .10 .2 .00 .2 .00 .2 .00 .2 .10 .2 .10 .2 .10 .2 .10 .2 .10 .2 .10 .2	20 1.40 20 1.10 20 1.50 20 1.50 20 1.60 20 1.25 20 1.25	2.25 3.25 3.25 5.00 4.50 5.00 5.00 5.00 5.00 5.00 5.0	\$4.50 4.50 6.00 6.00 6.00 7.00 6.00 6.00 6.00 6.0	\$2.25 \$2.25 \$2.25 \$2.50	\$2.25 2.50 2.50 3.25 3.50 3.50 3.50 3.75 3.50 4.00 4.00 4.50 4.50 4.50 4.50 4.50 4

Wheels with Standards, \$2.20; Joiners or Coulters with Holder and Attachment, \$4.75; Bolts for Shares, Moulds, Lands and Jointer Points, 6c. each. Wheel Standard Bolts. Each, 15c.

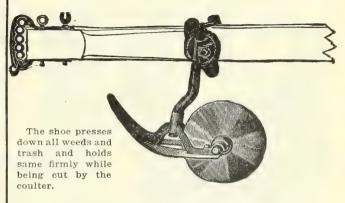
£.	COLLECT	00111001		,											
-	No.	65-Iron	Beam	Contractor	Plow,	R. H.,	Cast	Points,	with	Clevis	and	Shoe	\$33.00; Cast	Point,	\$1.15
-	No.	65-Iron	Beam	Contractor	Plow,	R. H.,	Steel	Points,	with	Clevis	and	Shoe	38.50; Steel	Point,	6.50
1	No.	67-Iron	Beam	Contractor	Plow,	R. H.,	Steel	Points,	with	Clevis	and	Shoe	43.50 ; Steel	Point,	7.75
n e	No.	67—Stee	1 Beam	Contractor	Plow,	R. H.,	Steel	Points,	with	Clevis	and	Shoe	60.50; Steel	Point,	7.75
3,	NIO	4. Stan	1 Roam	Contractor	Plow	R H	Steel	Points.	with	Clevis	and	Shoe	49 95 Steel	Point	5 76

'A. W. R.'' One Hoss Riding Cultivator

The A. W. R. Cultivator has been thoroughly tried out under arying farm conditions since 1918, and has proven its worth. There are many farms upon which there is too large an creage of row crops to be handled by a walking cultivator, ut where two-horse nachines will not look satisfactorily. While no expense as been spared to nake this tool right, he price is very rea-

aske this tool right, he price is very reaonable, especially then you consider hat it will do pracically the same mount of work as he two-horse mahine—do it easier, heaper and better.
The wheels and ultivator frame are djustable for width nd the depth is asily controlled by removable key pin.
It will cultivate corn up to three or even four feet high or those who seed to grass and clover at the last cultivation or those who seed to grass and clover at the last cultivation or those who seed to grass and clover at the last cultivation or those who seed to grass and clover at the last cultivation or those who seed to grass and clover at the last cultivation or complete the ground in perfect condition.

"MOON" ROLLING COULTER



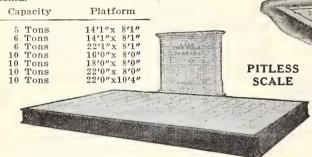
No. 1— 8-inch	disk\$5.00	
No. 2—10-inch	disk 6.00	
No. 3—12-inch	disk	

S

FAIRBANKS WAGON AND STOCK SCALES

WRITE FOR CATA-LOGUE & PRICES

For outdoor weighing with any of these scales a substantial wood beam box is usually supplied but for office weighing a short iron pillar outfit is preferable. A full capacity type registering beam may be used instead of the full capacity plain beam. On special order they may be equipped with extension levers to increase the distance from the edge of the platform to beam rod to suit a required special beam location.



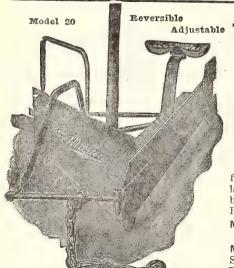
Fairbanks Portable Scale

This type of Portable Platform Scale is one of the most efficient for general use and is furnished either with or without wheels. It is equipped with arrow-tip single beam having a center indicating slid-

ing poise with setscrew, all of brass.

Durably and attractively finished in blue with bronzestripe, all well varnished for protection.

No. 1124 1128	Capacity 1000 500	Size of Platform 18"x27" 16"x25"	• • • • •	•••••	Price \$26.00



Adjustable THE MARTIN
FARM
DITCHER
AND
TERRAGER

Crystal Metal Farm Bells

Prices, including hangings complete.
Bronzed.

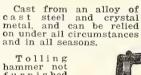
Wgt. Diam. Recom- of tail No. plete Bell Price

1. 40 lbs. 15 in. \$4.00

50 lbs. 17 in.. 5.00
 75 lbs. 19 in.. 8.00
 No. 4 Bell has a stand instead of Yoke.

4.100 lbs. 21 in..10.00

Steel Alloy Church and School Bells



Tolling hammer not furnished with No. 22. When furnished with No. 24; Retail, \$6.00. Prices on above named are for Complete Bells. and include wood sills and iron Wheels.

No.	Diam.	
20	20 in.	
22	22 in.	
0.4 *	0.4 2	

Weight
Bell only
110 pounds
122 pounds
153 pounds
205 pounds
153 pounds

Reta

Pric \$20.0

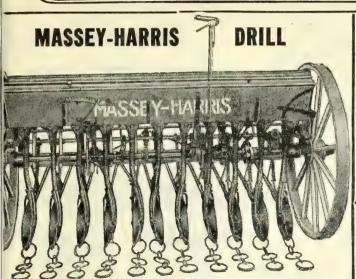
Specifications:

Landside, 10 inches by %-inch by 9½ feet. Bessemer steel. Rear guid fins, crucible plow steel. All steel stationary footboard built into center landside. Gooseneck, clogless hitch, heavy steel forging extends from drabar to center of cutting blade. Steel rail handle to control cutting blad Rolling coulter in front.

Model 20—Standard Double Edge Cutting Blade, Steel Beam, reversible.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.





Wain frame is equal to severest strains. It is bent from a single high grade steel angle to form three sides of a rectangular figure. Its corners are reinforced by steel plates. tangular figure. Its corners are reinforced by steel plates, and its two sides or ends are tied by a high carbon I-beam. In addition, the beam and frame are tied near their centers by two angle bars which extend beyond the beam sufficiently to furnish a support for the continuous steel axle. The frame, corner plates, I-beam and angle bars, all are riveted together in the most substantial manner. On this exceptionally strong frame the hopper is mounted with steel brackets and is further secured by a tie bolt. The result is an exceedingly strong and rigid construction which keeps all parts in perfect alignment. fect alignment.

Direct positive drive from both wheels.

	Price				
9	Disc\$139.70	9	Spring	Hoe	136.25
	Disc 161.85	11	Spring	Hoe	154.40
13	Disc 180.70	13	Spring	Hoe	172.20

GRITCO-B



3 Row Shovel Marker

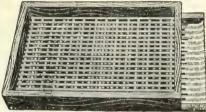
The Gritco Wheel Marker

The Marker will open rows from 2 to 6½ feet. By the use of the lever they can be opened any depth desired. The Marker is light draft and easily controlled. It can be used for laying off rows, listing or covering The Marker is equipped with marker pole, doubletrees and neckyoke.

Price....\$40.00

....\$40.00

PERFECTION CORN CRADER NO ONE WHO PLANTS CORN CAN AFFORD TO BE WITHOUT A CORN GRADER.



Every farm-er now knows er now knows his seed corn should be graded. No planter will drop right with ungraded

seed. Graded seed insures per-fect dropping, stronger

plants, and increases the yield 5 to 15 bushels per acre. This has been proved over and over by the Experiment Stations and by thousands of farmers.

List Price, \$24.00 Dozen.

Our Special Price, \$1.25 Each.

CRAIN DRILL POINTS

We are one of the largest distributers of GRAIN DRILL POINTS AND TUBES

> in the Country. For All the Leading Grain Drills.

IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample.

CRAIN DRILL TUBES



Plain Top.

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of Drill, the kind of Tube, whether ring flange or plain top, or special beil-shaped top with straps, and by all means the length and diameter at top and bottom.

Plain Tubes, each 45c. Bell Top Tubes, with strap, each 65c.

Gritco Hand Corn Planter

In the Gritco there is no chance of cracking the corn, beans or other seed, because of the Chinese bristle brush cut-off. The stamped stell slide is formed on a segment of the circle, whose center is the pivot of the blades. Slide quickly adjusted for different sized seeds. Galvanized iron better. iron hopper.
List, each, \$3.20. Retail, each, \$2.00,

Acme Hand Corn Planter

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the cornand back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it pocket uniformly—it counts the kernels for each drop.

List, each, \$4.00.

Retail, each, \$2.50.



CHECK-ROWER WIRE FOR ALL THE LEADING PLANTERS.



RETAIL, Sc.

Carry in stock the following

3 ft., 3 ft. 2 ins., 3 ft. 4 ins., 3 ft. 6 ins., 3 ft. 8 ins., 3 ft. 10 ins. and 4 ft. in 10, 20, 40 and 80-rod rolls. **Per Rod**,

ALL PRICES IN CATALOG SUBJE CT TO CHANGE WITHOUT NOTICE.

BLACK HAWK ALTERNATING DRILL NO. 76

For Altering Corn and Peas
or Corn and Beans

Planting cowpeas and soybeans along with the corn crop has been proven to be a good practice and is increasing in popularity.

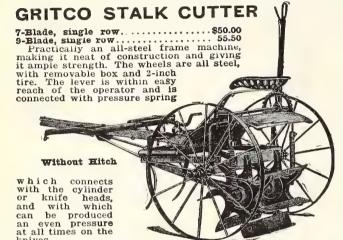
When the corn is used for silage the peas or beans make a more complete and balanced ration than corn alone.

When the corn ears are to be harvested in the regular way, many farmers turn the cattle and hogs into the field to eat the bean plants after the corn is harvested, thus returning the valuable manure to the soil. The field will grow the two crops as well as one.

The Black Hawk Alternating Drills handle both seeds with one can, the peas or beans being in an inner compartment and the corn in the outer. This makes a neat appearing, convenient assembly. Separate spouts are provided for the corn and for peas or beans.

No. 76 Planter, \$27.50.

No. 76 Planter, \$27.50.





This cut shows Our Special Fertilizer Distributer, which has become very popular. It has a positive force feed, and will sow all kinds of fertilizer. It is made of the best material, and is practical. OUR SPECIAL PRICE, \$22.50. terial, and is practical. OUR SPECIAL PRIC For Raised Hopper add, \$1.50.

Planter Runner Shoe



Intended for use on most old worn-out runners where a new runner can-not be obtained, and it will answer the purpose, but where new runners can be had it is much preferable.

Per Pair, List Price, \$3.00. Our Special Price, \$2.00.

Black Hawk Corn and Cotton Planters

No. 128 is operated with an inside Pitman drive. drive is direct and being placed within the frame cannot be damaged by bumping stalks, corn stalks, weeds, trash, etc Gauge shoe is furnished as a part of the regular equip-

No. 128—Plain\$22.50

Corn Planter Runner

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole an size of bend. BUNNERS FOR SINGLE ROW PLANTERS.

MUNICIPAL TOWN STRUCTURE WOW LITTING		Our	Į.
	List	Specia	790
	Price.	Price	of t
	Each.		
For Rock Island	2.80	2.0	
For Twentieth Century	2.80	2.0	
For Empire	\$2.80	\$2.0	
For Hench & Dromgold	ΨΕΙΟΟ	Ψ2.0	erly
Daisy	\$2.80	\$2.0	
For Hoosier	2.80	2.0	A
For Keystone, No. 6½	2.80	2.0	the
For Farmers' Friend	2.80		tion
	2.80	2.0	
For Evans		2.0	T1
For J. I. Case	2.80	2.0	ion.
For Black Hawk	2.80	2.0	-
For Avery No. 27	4.00	2.7	71
E CONTRACTOR OF THE CONTRACTOR		3	Rock
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	No.		
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	The same of the sa			150
	- TO THE LOUIS	List	Our St	100
		Price	Price	W
	Ton Double Born Dianters	Per Pr.		
	For Double Row Planters.		1011	
For	Janesville, Nos. 1, 5, 7 and 8	\$6.00	\$3.	
6.6	Black Hawk, No. 1	6.00	3.1	
6.6	Black Hawk No. 3	5.50	3.1	
66	Black Hawk, No. 4	5.50	3.1	
4.6	Black Hawk, No. 5	5.50	3.	
6.6	Deere, No. 999	5.50	3.	
66	New Way		3.	
66	Black Hawk No. 15	5.50	3.	
66				
66	Deere, No. 9		3.	
66	International		3.	
44	J. I. Case		3.	
66	Evans' Steel Frame	5.50	3.	
	Evans' Wood		3.	
66	Evans' Simplex	5.50	3.	
66	Superior	5.50	3.	
46	Hoosier, No. 10	5.50	3.	
44	Hoosier, No. 11	5.50	3.	
66	Tiger, No. 4	5.50	3.	
46	Tiger, No. 10	5.50	3.	
66	Bullseye	6.00	3.	
66	Union Victor	6.00	3.	
	Ullion victor	0.00	3.	





One of the greatest features of the New-Way Corn Planter is that the "drop," or the number of kernels planted to the hill, can be changed instantly by simply a touch of the toe. With this planter it is not necessary to change the seed plates in order to change the drop from two to three or four as is true of other planters. By simply shifting a lever with the toe of the shoe the drop can be instantly changed as desired while

lever with the toe of the shoe the drop can be instantly changed as desired while the planter is in operation.

The Rotary Fork Reduces Wear

Another great advantage which the New-Way possesses over all other planters is its rotary or revolving forks. Unlike other planters, it throws practically no strain whatever upon the wire when in operation. The button on the wire is not compelled to operate the valves and dropping mechanism by forcing the forks back six or eight inches, as is usually the case. The only thing the button does with the New-Way is merely to "trip" the fork, or carry it about three-quarters of an inch.

One of the greatest defects common

One of the greatest defects common with other planters has been overcome by making our seed plates extremely large. They contain twenty cells each, almost twice as many as the ordinary planter plates contain.

New-Way a decided advantage over all other planters. But by embodying both the flat and the edge drop in conjunction with hese other advantages, we have perfected a corn planter which is positively unequalled for accuracy of drop under every posplain Check Rower Planter. \$75.00 For Disc Furrowers add.

No. 7 Twentieth Century Corn & Cotton Planter

WITH PRESS WHEEL ATTACHMENT

One of the features which makes the Twentieth Century Planter No. 7 so popular is the laborel gear under the seed box, which meshes into and drives the bevel gear at the bottom.

This drive is

The frame is constructed from high carbon channel steel and is properly braced. The handles are adjustable to suit the operator.

Adjustable bail hitch is provided so that the drive wheel will always have proper trac-

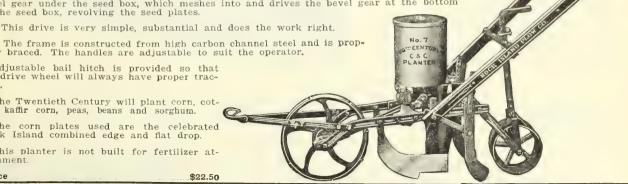
52.00

The Twentieth Century will plant corn, cot-The Twentieth Century will plant corn, 2000, kaffir corn, peas, beans and sorghum.

The corn plates used are the celebrated Rock Island combined edge and flat drop.

This planter is not built for fertilizer at-

Price \$22.50



Rock Island No. 7 Corn Drill

CONVERTIBLE EDGE OR FLAT DROP

The Rock Island No. 7, plants corn of all kinds, sorghum, kaffir corn, beans and peas. The Seed Box tilts forward to change the plates. You don't have to empty the box. This planter is strong and substantial, easy to handle, convenient in every way, reliable and accurate.



To provide ample power when fertilizer attachment is used, we furnish driving lugs with the fertilizer attachment which can be quickly attached to the wheels if needed.

Handy foot trip throws machine in and out of gear, handles are adjustable and the hitch can be adjusted up or down as required.

The fertilizer attachment is driven by the same chain that drives the dropping mechanism. Easy to attach and adjust. The feed spout is behind the runner boot which permits the seed to be slightly covered and kept from lirect contact with the fertilizer.

No. 7 Corn Drill without Fertilizer Attachment \$22.50

Attachment

7 Corn Drill with Fertilizer Attachment

General Features

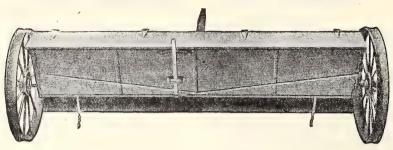
General Features

HOPPER—Cast-iron ends projecting over and protecting ends of sid boards. Screws are put in across the grain; not in the end with the grain. Truss rods on both sides, with brace rod and board in the centernake an exceptionally rigid constrution. There can be no sag or wan axie and bearings cannot get out alignment, no matter how heavy thoad or rough the land.

Two-piece cover secured with heavy hinges, nicely fitted to matter the prainproof. Hopper is fitt with two screens to sift out lum which might cause breakage or cloging.

Gritco Broadcast

Lime Distributor



Lime Sower-Rear View

Note—Truss Rods, Self-Aligning Bearings, Right and Left Lever Throw for Broadcasting or Top Dressing

Scatter-board is adjustable. Whe clear down, fertilizer will drop rows six inches apart or can be raisend will breadcast evenly over straine feet wide. Sides of box a steep, so contents will not stick The cut-off slide moves easily in a groove in the cast-iron bottom plates. When the cut-off lever is moved to right all the feed heles are open for broadcasting. When the lever is moved to left of center, three holes only are open for drilling Box is full eight feet long; holds about ten bushels; will sow from 200 to 4,000 lbs. per acre, depending on conditional bright feet long; holds about ten bushels; will sow from 200 to 4,000 lbs.

AXLE—1%-inch cold rolled steel; has renewable bearings which are self-aligning. This prevents undue wear and lighte the draft. The distributors or feed wheels are fastened directly over the feed holes. Each distributor has five prongs. A steagitator rod runs through the feed wheels, keeping fertilizer well mixed and preventing clogging or binding above the fee End castings are slotted, so that the clearance between distributors and feed plates can be adjusted. This and the lar five-pronged distributors are exclusive features and assure an even distribution of any quantity of material, in any condition of any quantity of material, in any condition of a windy day.

windy day.

Wheels are all steel, with wide concave tires to prevent sliding on side hill. They operate the axle with the universal used ratchet drive.

This Lime Sower is cheap only in price. We use the very best material obtainable. The few parts and simplicity of construction enable us to make a superior machine at a reasonable price.

Stock sizes: 8-foot Box with pole, \$55.00;

Peoria Harrow Grass and Alfalfa Seeder

HARROW AND PLANT AT ONE OPERATION

Save Time-Save Labor-Save Speed

When renovating old turf or in new construction always harrow after seeding.
Harrowing loosens the top soil; opens up the turf so air and moisture can get in. Gives a lealthier, sturdier, closer growing stand of long yearing sod. Livens up the soil, strenghtens the plant roots so that divots will fill up quickly; worn and burned spots will come back in record time.



GIVES THE SEEDS A CHANCE

It cuts fairway seeding labor in half; makes power go twice as far—the only tool of its kind in the world.

Attaches to the evener bar of any old or new, wood or steel harrow. Quickly detached by removing coupling pins. Nec little storage space. Sows all grass seeds more uniformly than by any other method. Covers seed to proper depth. The or tool that will not bury seed too deep. Force feed. Adjustable to any desired quantity. Seeds close to the ground. No sc tering or wastage from wind. Made in 10, 12, 15 and 16 foot lengths for 2 and 3 section harrows. Feeds are only 4 in. apa insuring even distribution.

Greens committees superintendents and professionals are hardened.

Greens committees, superintendents and professionals are buying this new machine for the time it saves and the bet work it does. Revolutionizes work—cuts it in half. Pays for itself the first time over. 10 ft....\$27.00. 12 ft....\$29.25. 15 ft....\$32.50. 16 ft....\$33.50.

THOMPSON'S GOLF SPECIAL SEEDER

Golf greens, fairways and lawns must be seeded evenly to produce the desired

uniform turf.

Thompson Golf Special Seeders are used on America's leading golf courses and private estates because they are speedy, accurate and economical. Wind or mud do not interfere with their accurate work because they sow close to the ground and

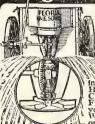
accurate work because they sow close to the ground and cannot clog.

The light weight, perfect balance and few working parts appeal to the man who uses the seeder and permit him to do more and better work. Sowing by hand is slovenly and wasteful. The safe, sure and economical method is with the Thompson Golf Special Seeder.

For a large amount of ground to cover we suggest two or three of these Seeders, providing the job of seeding needs to be done quickly just when the ground is in the right condition to receive the seed.

No. 106 SEEDER, 10-ft.

No. 106 SEEDER, 10-ft. HOPPER complete; weight 60 lbs.\$22.00



Sows damp or dry lime
Uniformly spreads 16 f
Force feed. No winday
waste, No clogging, Do
double the work of whe
seeder - costs much les
Attaches to wagon wid
out removing endgate
strengthens wagon bo
No highliting, No clea
Ingorrepair of cleats to attac
lift the gears and sprocket
Capacity 100 to 10,000 lt
Fully guaranteed. Increas
your profits. Low in pric
wite for circular on this as
out other new farm too

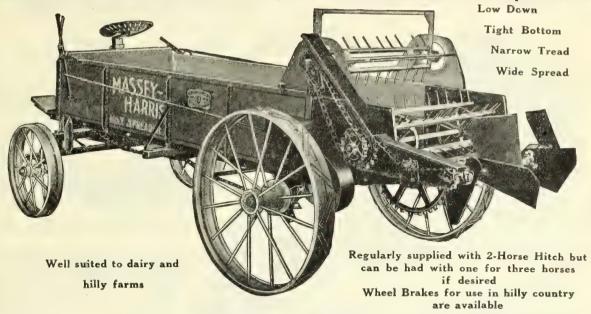
The spreading of Calcium Chlor and other materials on park drives decity streets to prevent excessive dusor salt to thaw sleet and ice—is accorplished equally as effectively by timachine as lime or other fertilizers farms. Numerous machines are new use for this purpose—all are given highly satisfactory results.

Fairways of golf courses can be treed uniformly and economically with sliphate of ammonia with equal success.

Price



Massey-Harris No. 7 Light Draft Manure Spreader



All kinds of manures are handled to advantage with this machine. It has a tight bottom, is low down, is easy to load, is easy to draw and is narrow enough to be taken into the stable for loading from the gutters if desired. Besides, it is built according to a design which has proven to be both practical and efficient. It is well adapted to every use to which a spreader can be put and furnishes splendid equipment. The front bolster is made in trussed form from steel angles of 3 in, by 2 in, by 3/16 in, dimensions and is so placed that the wheels come directly under the load. It extends the full width of the box and is securely bolted to the side sills, thus forming an additional tie for the bed and giving the frame added strength. A lathe cut cold rolled steel shaft 1¾ inches in diameter furnishes the rear steel axle which turns in large cast boxes that are bolted directly to the sills.

Auto truck at front. The front wheels track with the rear ones and are mounted in the front bolster on 1½ in, cold rolled steel stub axles similarly to the front wheels of an automobile.

Abundant power for every condition is generated by the rear wheels, both of which are drivers. These wheels are 40 inches high with 5½ inch flanged tires.

Two beaters and a wide spread distributor do the pulverizing and spreading. Friction is minimized by the use of self-aligning bearings.

Power for the beaters is furnished direct from a large sprocket by a heavy pin link chain.

Price

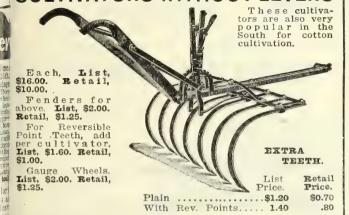
Power for the beaters is furnished direct from a large sprocket by a heavy pin link chain.

An endless conveyor made up of two chains and several angle steel bars which are riveted to the chain, moves the load

All challess conveyor made up of the challest the the beaters.

By simply shifting the feed lever it is possible to spread at the rate of 8, 12, 16 or 20 loads to the acre as may be desired.

GRITCO STEEL BEAM DIVERSE CULTIVATORS WITHOUT LEVERS



GRITCO WOOD BEAM DIVERSE CULTIVATORS WITHOUT LEVERS

Each, List, \$13.00; Retail, \$8.00.

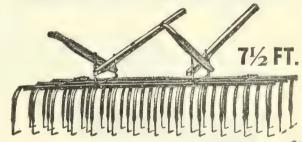
Fenders for above, List, \$2.00; Retail, \$1.25. For Reversible Point Teeth, add per cultivator. List, \$1.60; Retail, \$1.00.

WEEDERS AND ATTACHMENTS

.....\$167.20

By the use of Weeders much time and labor are saved and better crops grown. These weeders or shallow cultivators, as they are sometimes called, can be worked in dry or weet weather. They will not cut the roots of the crop, but cultivate just deep enough to retain the moisture where it is most needed. Use a weeder early and often, and you will be surprised at the results. It is a good policy to use the weeder after a heavy rain, when the ground has been beaten down, to avoid the forming of a hard crust which retards the growth and development of the crops. and development of the crops.

GRITCO FLAT TOOTH WEEDER



Price.

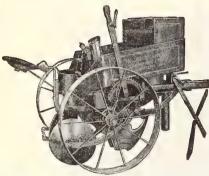
7½-foot Gritco Flat-Tooth Weeder....\$22.00 9-foot Gritco Flat-Tooth Weeder....26.50 Extra Teeth......40

Special Price.

\$13.50



O. K. CHAMPION POTATO PLANTER No. 22



The O. K. Champion No. 22 Planter is au-tomatic in every de-tail; it needs but one man to operate it, a driver.

It will plant either cut or round potatoes as accurately as me-chanical skill has yet been able to devise a planter.

It opens a V shaped trench for reception of the seed.

Planting is done by a system of cups on an endles,s chain which enters the seed

hopper from below. Each successive cup takes a seed po-tato at the bottom of the funnel, carries it up into the down-spout where the seed falls on the back of the preceding cup, and is then carried down to within about six inches from the ground.

The driver sits in a position where he can oversee the entire work of the machine. All he has to do is to drive his team slowly and keep the two bushel hopper filled with

No.	22	Plain Plante	r		\$ 90.00
No.	22	Planter with	Fertilizer A	Attachment	105.00

O. K. CHAMPION POTATO DIGGER



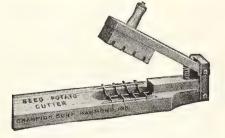
The New No. 8 Digger, 22 inches wide, has been designed with the purpurpose in mind to give the farmer a Two-Horse Digger that embodies efficiency, lightness or draft, strength and durability. Steel is used in every place where it helps to reduce breakage and wear, thereby reducing the cost of up-

It will get all the potatoes out of the ground under the most severe conditions of soil.

It is positively a Two-Horse Digger, pulls easily. It has a full floating axle that runs in roller bearings, the gear shaft likewise runs in roller bearings. Pressure Grease Cups are provided for both axle and gear shaft bearings.

Price, 22 inch Digger.....\$125.00

O. K. Champion Hand Pototo Cutter



Price

Success Junior Potato Digger



The SUCCESS JUNIOR PO-TATO DIGGER does does cleaner digging in one digging in one trip over the row, and the tubers are left in better condition for picking up. It greatly reduces the labor, and saves many potatoes.

Price, each . . .

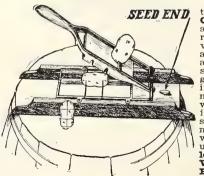
Acme Tubular Hand Potato
Planter
THE LIGHTEST TUBULAR PLANTER
MADE.

Its spring-closed jaws are especially designed to enter the sod easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

OUR SPECIAL PRICE...\$2.00

Directions for Using.—Walk erect, plunge planter into the soil, press forward as you withdraw it; seed is left in moist soil, not ory, as is usually the case when seed is dropped by one man and left to be covered by another.

THE GEM SEED POTATO CUTTER



The construction of the Gem Seed Potato Cutter is very simple, and is built for accuracy as well as convenience. It is strong and durable; the knives are of good quality steel and are fitted to grooves in frame, making them easy to remove if necessary. It will cut any size potato move if necessary. It will cut any size potato in pieces uniform in size, thereby insuring more accurate planting when power planter is used. Size, 24 inches long, 8 inches wide. Weight, 8 pounds. List: Price, \$8.00. Our Special Price, \$5.00.

All bearings are held in positive alignment by a one-piece frame which is accurately bored in one operation by a lathe especially designed for the purpose,

Power is evenly applied from both wheels,

Strong, perfectly meshed gears transmit the power to the knife with comparatively no friction loss. Being made with large teeth, they wear long,

Splendid balance obtains. The gearing is located back of the axle, where, aided by drawing the machine from beneath the pole, it successfully balances the cutting

4½ Ft.\$82.85



Combined Plain and Vertical Lift



No. 11 One-Horse Mower Massey-Harris iof 31/2 Ft. Vertical Lift..... \$79.10 Vertical Lift. 80.25

This mower is especially designed for a strictly one-horse machine and well supplies the need of those who require one of that kind. It has ample weight and traction to cut all kinds of hay crops and yet, is of such construction that one horse handles it easily. Light draft is one of its salient features and in combination with power and durability, makes it good equipment.

Main frame is in one piece, accurately bored to hold the gears and shafting in positive alignment.

Roller bearings are used for both the main axle and the cross shaft where they reduce the friction to a minimum.

A simple, powerful gearing system located back of the main axle, where it counteracts the weight of the cutting apparatus, transmits the power to the knives through a crank shaft which is fitted with separate removable boxes—a brass one at the front and a self-aligning cast iron one at the

Cutter bar is of cold rolled steel fitted with malleable guards and shoes all of which are carefully aligned to insure the knife working properly. Steel plates take the wear of the knife and malleable Caps hold it in line

malleable Caps hold it in line

Convenient levers control the bar and enable
placing it in any position that may be necessary.

If desired, you can, by means of the raising lever,
fold the bar to a vertical position without getting
out of the seat. A simple automatic throw-out
device, mounted on the bevel wheel shaft, works
in connection with the lever.

Massey-Harris Steel Hay Rake

Strength, convenience of operation and efficient work in he field are pronounced feahe field are pronounced fea-ures of this rake. It is built ilmost entirely of steel, is well idapted for both heavy and ight hay and can be dumped ither by hand or by an auto-natic trip controlled by the loot, as desired.

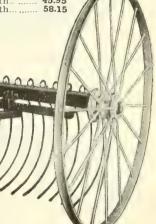
Stiff, steel ingles are used for both ake head and h e draw rame

The trip rod s of high caris or high car-is on steel, in the me piece, and the well sup-tist orted.

The teeth are of special steel, oil tempered, and will interchange. A coil near their pper ends enables them to spring back and up without breaking when encountering bstructions.

The wheels are of steel, of good height and are mounted on removable steel stub axles which are securely fastened to the rake head.









This implement offers you all of the advantages of the most nodern side delivery rake and then goes one further. It gives you in addition, an excellent hay tedder into which is is quickly converted by simple moving a lever which causes the motion of the raking cylinder to be reversed at increased speed Combining two machines in one, saves you the cost of the one, the time of changing from one to the other when separate machines are used and yet requires no more space for storing than a side rake of the ordinary type.

Foundation is substantial. A very strong main frame of high carbon angle steel, well-braced and trussed, carries the raking cylinder in detachable, easy running bearings, and holds all parts in perfect alignment, giving the machine ligh draft and long life. Power is applied from both sides by two strong, steel main wheel of 46-in, diameter and with wide tires on which traction spuds are placed at frequent intervals.

intervals.

Only three gears are used. A raking and a tedding gear on the main axle, work ing in conjunction with a bevel pinion on the axle of the raking cylinder, comprist the entire gearing system.

Quickly changed from rake to tedder. A convenient lever, having a range of thre positions, controls the raking cylinder. Moving this lever to the forward position places the cylinder in gear at the lower speed of raking. Reversing its position-moving it to the rear—places the cylinder out of gear at the higher speed for tedding. A the center position it holds the cylinder out of gear. These changes are practicall instantaneous and can be made by the operator from the seat.

Lever adjustment for working height. At the rear the frame is carried by twatrong castor wheels which can be quickly adjusted to carry it at any height desired 1/2. Ft.



This latest addition to the Massey-Harris line warranted farm implements has already proven to the leader of the new class of hay loading machiner Has the Drop Deck feature now so greatly in demal by modern farmers. The deck has been built as strough spossible and is carried by an angle steel support can be easily seen from the illustration. This method support has proven to be the most successful yffeesigned. The sides and wind break hinge with the dealing and, by simply dropping the deck to its lowest postion, you can store the machine in a shed with a clearant of only 8 ft. 10 in. By removing one pin the force triage can be detached so that the loader can be storing a building having a clearance of less than 7. These are points of particular interest when you realithat the ordinary loader requires almost 11 ft. clearant for storage. Strong coil springs carry the deck and can be easily raised without getting down from t load. A special folder describing the machine in 6 tail is yours for the asking.

Massey-Harris Steel Hay Tedder

Good hay under the most adverse conditic is possible when the services of this impleme are employed. It kicks up the swath into loose, fuffy mass through which the air circ lates freely, with the result the curing process hastened and hay of a high quality is a tained. And besides, it's built in such a we that it will give many years of satisfactory strice.

Four steel angle frame sills, tied by a st angle cross beam and two heavy steel pipes, f nish the foundation.

nish the foundation.

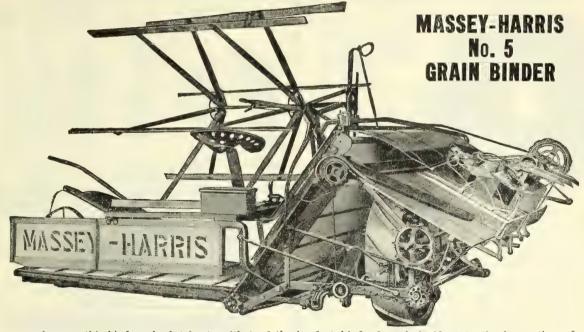
It is built in two sizes, 6-fork and 8-fo and is regularly supplied with forks of th tines each.

High, interchangeable, steel wheels, w large hubs and wide channel tires (concave s out) give ample traction. Power is applied s ultaneously from both sides.

	VI
1	A MU

8 Fork

8 Fork...... 2 Horse Hitch with neck yoke......



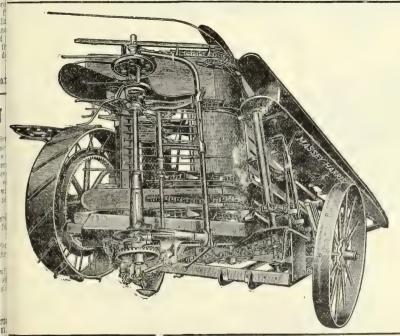
You can rely upon this binder, absolutely, to withstand the hardest kind of work incident to the harvesting of a grain rerop. It is built for use with either horses or tractors and is made to give you satisfaction in every respect. Right from its foundation up through every part of its structure it is built for service, the principle of its design is correct, none of the manufacturing operations are most carefully performed.

**Main frame is trussed like a bridge. Seldom in agricultural implement construction do you find a frame which has the strength and rigidity of this one. Lengthwise and crosswise, it is made up of a series of high carbon steel truss-like forms which are so arranged and united that the strength of each one is contributed to and supplemented by that of the others. Interest of any substantially is it tied, trussed and reinforced at every supporting point there isn't the least chance of sagging, twisting or any other kind of distortion, and a positive alignment of all bearings is assured.

**Roller and self-aligning bearings lighten the draft. Special care has been exercised to provide bearings that would insure light draft and long life. For both the main and the grain wheels for the cross and crank shafts, and for the rollers that drive the elevators, roller bearings in cages are used. Then, in addition, self-aligning boxes are provided wherever they are of advantage, as at the rear of the crank shaft, at the sprocket end of the inner platform roller, etc. Friction is minimized at every bearing point.

**The platform is of good width for handling the different crops and is representative of great strength and rigidity. It is reinforced at the under side by angle steel ribs to which it is securely riveted and at the grain wheel end by a trussed bronstruction—one of the strongest forms possible. It is also substantially reinforced where it connects to the main frame.

**These various reinforcements are further supplemented by a steel T cutter bar which prevents sagging and retains the salignme



MASSEY-HARRIS No. 3A CORN BINDER

Whether your corn is the large firm varieties which stand erect; the supple, spindly kind that often become lodged; or the short growths which are mixed with grassy bottoms, this machine will harvest it to your entire satisfaction. It is of an improved type and has several exclusive features of considerable merit outstanding among which is a wider range of adjustment for accommodating all heights and kinds of corn than is found in other machines of its class.

Built low with stable foundation. No corn binder of greater stability than this one is on the market.

The largest drive wheel used on a corn binder generates the power. This wheel stands 40 inches in height, has a 9-inch face, and is well lugged.

Cutting apparatus is simple and efficient. It consists of only two stationary knives, one on each side, and a single section sliding knife which is driven by a steel pitman.

No. 3A with Bundle Carrier \$216.90





ALFALFA BELTING

Alfalfa water-proof belting is a belt woven especially with a view of obtaining great tensile strength. Nothing but the finest long staple cotton is used.

		List.	Our Price.
2-inch.	4-ply	 \$0.40 ft.	20c. ft.
3-inch,	4-ply	 51 ft.	25c. ft.
4-inch,	4-ply	 70 ft.	35c. ft.
5-inch,	5-ply	 1.08 ft.	54c. ft.
6-inch.	5-ply	 1.24 ft.	62c. ft.

We have been able to develop by the use of the best raw material obtainable, and by a direct system of impregnation a fabric belt, which has a breaking strain of 6,730 pounds per square inch, which is equal to, if not in excess of, the breaking strain of any belt that has been produced.

RUBBER BELTING

	List,	Retail.	List.	Retail.
3-in.,	3-ply55c. ft.	33c. ft.	5-in., 3-ply \$0.87 ft.	53c. ft.
3-in.,	4-ply65c.ft.	39c. ft.	5-in., 4-ply 1.02 ft.	61c. ft.
4-in.,	3-ply 70c. ft.	42c. ft.	6-in., 4-ply 1.22 ft.	74c. ft.
4-in.,	4-ply82c.ft.	50c. ft.	Special Prices for	
	Larger a	nd smaller	sizes on application.	

The FOWER JACK is a simple and handy is a simple and handy device for using the power of a Ford, Chevrolet, Overland or other light car to run power machinery. It requires no special attachment to the corr but is applied by cial attachment to the car, but is applied by simply sliding it under the rear axle and raising both wheels clear of the ground as shown in the accompanying cut. Will develop more than 12 H. P. and will drive a saw, feed grinder, pump, fodder cutter, etc.. satisfactorily. pump, fodder cutter, etc., satisfactorily. Driving pulley has 8 inch diameter and 6½

Weight about 175 lbs. Shipped knocked down.

. \$48.00

Retail Price. \$3.00

5.15

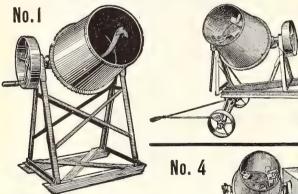
Raw-Hide **Belt Lacing**

No. 3

			Price.	ľ
3% -in	per	100	ft\$3.75	
½-in	per	100	ft 5.50	
			ft 6.50	
			ft 7.50	

inch face.

The H. & Z. Concrete Mixer



Saves Cement and Insures Better Concrete Eliminates Much Hard Work and Does a Better Job

Hand mixing is a hard, back-breaking job, and be-cause it is difficult it is

often slighted—the concrete is poorly mixed, cracks, crumbles and goes to pieces. To insure a good job the concrete should be mixed with an H & Z Mixer—and that is the most economical way in the end.

A Fast Working Machine

The H & Z Mixer will mix a batch of thoroughly mixed concrete in a minute or less. The drum is always revolving and as soon as any material is put into it the mixing begins. The revolving discharge insures a quick pouring of the entire contents of the drum, throwing out the heavy and lighter materials in an even flow and not draining off the water and sand first as would be the case in a stationary discharge

No.	1	2 1/2	cu. ft.	capacity\$34.00	
No.	3	3 1/2	cu. ft.	capacity	1
No.	4	3 1/2	cu. ft. c	apacity with 1½ H. P. Engine176.00	,

National Block Machine



To produce this leader of Cement Block Machines, the "NATIONAL" was built on the INTERCHANGEABLE UNIT system so that each machine can be used for hand tamping or for power tamping. This enables anyone to start small by hand tamping and to expand gradually or to add to an operating plant without replacement, but by maintaining the original investment with every advantage.

A Face-Down machine, making stronger and more perfect blocks, providing for the making of Ornamental and Fancy-face blocks.

It produces blocks of two core hole type, which are the most approved standard, in all standard sizes, shapes and faces.

and faces.

Either wood pallets, which you can make yourself, or cast iron pallets, which we can furnish, may be used with the National Block Machine. Solid blocks may also be made on same, regardless of what type pallet is used.

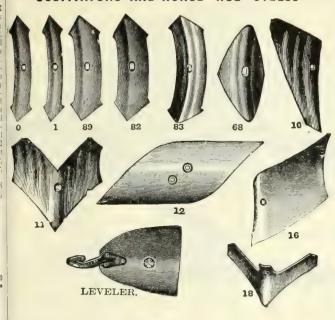
Price, Less Hopper \$195.00

Hopper Extra. \$30.00

Extras, Price on Application.



CULTIVATORS AND HORSE HOE STEELS



		List	Our Special
		Price.	Price.
	No. 0-14-in. Diamond Point Steel	\$17.00 per	100 \$0.11 ea.
ı	No. 1-2 -in. Diamond Point Steel	19.00 per	
	No. 89-21/2-in, Diamond Point Steel	22.00 per	
	No. 82-3 -in. Diamond Point Steel	24.00 per	
	No. 83-31/2-in. Diamond Point Steel	26.00 per	
	No. 84-4 -in. Diamond Steel Point	28.00 per	
	No. 68-Oval or Jersey Point Steel	32 00 per	
	No. 10-Turn Shovel, right or left	42.00 per	
	No. 16 Turn Shovel	38.00 per	
	No. 11-6-in. Sweep, about 7-in. across	50.00 per	
	No. 11-8-in Sweep, about 11-in. across	56.00 pe	
	No. 12-Horse Hoe, Steel only, without	00:00 pc	ioo ioo ca.
	shank, R. & L		: 100 .36 ea.
	Shank, It. & Li	37.00 per	. 100 .30 ca.
		List	Our Special
		Price.	Price.
	Horse Hoe, Steel, with Shank or Stan		
	ard, per pair		\$1.25
	Horse Hoe Attachments, complete, p		42.00
	set of three pieces		1.50
	No. 18-6-in, Sweep, each		,30
	No 19 8 in Sween each		22

T 2 m4

Oun Special

Horse Hoe, Steel, with Shank or Stand-			
ard, per pair	\$2.00	\$1.:	25
Horse Hoe Attachments, complete, per			
set of three pieces	2.40	1.	50
Vo. 18— 6-in, Sweep, each	.48		30
No. 18— 8-in. Sweep, each	.54	91	33
No. 18—10-in. Sweep, each	.60		37
No. 18—12-in. Sweep, each	.70		42
No. 18-15-in. Sweep, each	.84		52
Wheels for Cultivator, each	1.50		95
Levelers for Cultivators, each	1.40		90
Cultivator Plate Bolts, 1½, per 100	4.00		03
Cultivator Plate Bolts, 2½, per 100	4.00		03
Cultivator Frame Bolts, per 100	4.00		03
Wheel Cultivator Clamps, each	.64		40
Set Screw Cultivator Clamps, each	.60		38
Teeth for Baltimore Combined Harrow			
and Cultivator, Diamond Shaped Steel,			
each	.22	-	15
Cultivator Handles, finished with rod			
and round, per pair	2.40	1.5	50

All of the above goods are of the best steel and highly polished.

SHOVEL PLOW HANDLES

Finished, for Single or Double Shovel Plows, complete with round and rod, per set	
Finished without round and rod, per pair 1.40	
Finished and bored, right and left, each	

Steels for Riding Cultivators

WITHAND WITHOUT BACKS

For Round and Open Foot Shanks. For Brown, Brewn-Manly, Buckeye and Deere Cultivators.



5-Back No. for convex or open foot shanks.

shanks.
The steel shown with No. 5 back is 5x11 straight top.



No. 2-Back r round for shanks.
The steel shown with No.



Always specify Always specify which style of Back is Wanted.

This

shown with No. shown with No. This cut
5 back is 5x11 2 back is 5x11 shows 3x10 restraight top. flared top. versible steel. No. 5
In ordering 5x11-inch Steels in less than sets of four, always specify whether wanted with straight top or flared top, and right or left hand.

STEELS FOR RIDING AND WALKING CULTIVATORS List Price.	Our Special Price.
1½x10½ inches, Reversible with Back	\$0.39
2 x10 ½ inches, Reversible with Back	.42
$2\frac{1}{2}\times10^{\frac{1}{2}}$ inches, Reversible with Back	.45
3 x10 ½ inches, Reversible with Back	.49
3½ x10½ inches, Reversible with Back	.50
1½ x10½ inches, Reversible without Back	.17
2 x10 ½ inches, Reversible without Back	.18
2½x10½ inches, Reversible without Back	.19
3 x10 ½ inches, Reversible without Back	.30
3½ x10½ inches, Reversible without Back34	.22
5 x11 inches, With Back	.75
5 x11 inches, Without Back	.50
5 x11 inches, Not Bored	.50
1½x10½ inches, Bull Tongues, with Back	.45
2 x10 ½ inches, Bull Tongues, with Back	.46
2½ x10½ inches. Bull Tongues, with Back	.47
1½ x10½ inches, Bull Tongues, not Bored	.25
2 x10 ½ inches, Bull Tongues, not Bored	.26
2½x10½ inches, Bull Tongues, not Bored	.27

Shike uallow	ıeem	5% in., 3% in.,	1b	8c
				V. V
	Special P	rice in	Quantity.	

STEELS

Cnika Harrow Tooth

SIZES SHOVEL PLOW STEELS

For Single and Double Shovel Plows.



DRAG BLADES.4"x7", 4½"x7",
5"x8".

D. S. BLADES 5", 5½", 6", 6½", 7" wide. 8", 10" and 11"

8", 10" and 11"
long.
S. S. BLADES
All sizes from
8" to 19" wide by
11" to 16" long. In
1 and 2 hole.

CALF TONGUES—1½", 1¾", 2" wide by 8" long. **BULL TONGUES**—1¾", 2" and 3" wide by 11" long. Above can be furnished in 1 or 2 hole.

Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles. Genuine Malta Double or Single Shovel Plow Steels, per pound Farmers' Favorite Triple Shovel Plow Steels, per pound Farmers' Favorite and Double Shovel Plow Steels, per pound .12 .05 pound
Bolts for Shovel Plow Blades, each....Shovel Plow Fender...

of the Lever Wheel
Attachment and
Rear Wheel Depth
Regulator. Weight,
80 lbs. List Price,
\$18.00. Our Special Price, \$11.00.

GRIFFITH @ TURNER CO

(1) (AS (A)





LORD BALTIMORE CULTIVATOR AND HORSE HOE FIG. 20

Equipped with our latest improved **Hollow Pressed Steel Standards, Lever Br-pander** and Outside Handle Braces. Extra high Steel Frame. Standards are interchangeable, there being no "right" nor "left" as in the solid standards in general use.

The Horse Hoe Standards differ from the other three, and take either the regular Cultivator Teeth or Hilling Attachments. They have two holes to accommodate Hillers, and may be turned all the way around, thus giving any sideway angle desired. Hillers are reversible, and may be used with either point or rounded edge foremost. Weight, 60 lbs.

With Lever, List Price, \$14.00. OLE SPECIAL PRICE......\$8.50

With Lever and Wheel, List Price, \$15.50. Lever

OTTR.

SPECIAL PRICE. \$9.50.

Baltimore Combined Harrow and Cultivator

List Price, with-out Lever, \$10.20. Our Special Price, \$6.35.

List Price, with Lever, \$11.20. Our Special Price

Oriole and O. D. have Plates

No. 89

Baltimore Combined Harrow and Cultivotor

The teeth have four positions—first, position shown in cut, in which case can be used for working very close to small plants. Thoroughly pulverizes, throws no dirt on plants. Second position, as a straight tooth harrow. Third position, teeth can be arranged as a smooth harrow, with sharp points down, in order to cut and level surface. Fourth position, teeth can be set with sheared end down, being less liable to injure young plants. young plants.

Can be contracted to inchesand expanded to 21 inches. Weight, 51 pounds. 14-TOOTH.

SHOVEL PLOWS



The cost of these goods is not so much in finish as in the construction and material, these being the principal requisites in an im-

These Cultivators can be contracted to about 9 to 10 inches, and expanded to about 26 inches.

> WEIGHT 42 lbs.

wherever sold it becomes a favorite.

Both have No. 89

Heavy

Extra Single Shovel Plow\$4.50

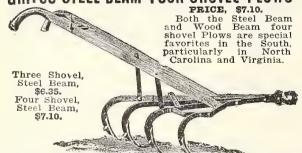
Cultivator, plain Cultivator with Lever Horse Hoe Attachments, complete, per set of three pieces... Wheels for Cultivators. each...

Old Dominion Oriole and Cultivator

The difference between Oriol and Old Dominio Cultivators is: The first has ben frame and the other has straigh frame. The Ol Dominion Cultiva tor is sold princ pally in Virgini and the South, an

plates List Specia Price, Price \$ 9.00 \$5.5 \$ 9.00

GRITCO STEEL BEAM FOUR SHOVEL PLOWS

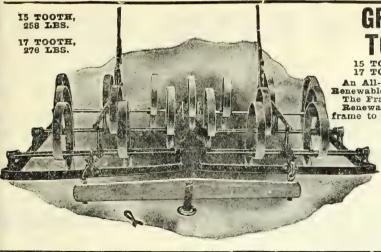


GRITCO WOOD BEAM FOUR SHOVEL PLOWS

Both Wood and Steel Beam are furnished with reversible



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GRITCO RUNNER SPRING TOOTH LEVER HARROW

15 TOOTH, \$28.50 17 TOOTH, 30.50 23 TOOTH, 3 SECTION, \$41.00 25 TOOTH, 3 SECTION, 42.5

An All-Steel, Low-Down Lever Spring Tooth Harrow with Benewable Steel Runners. 15 or 17 Teeth. Two Sections. The Frame is made of special "T" Steel forged in one piece.

The Frame is made of special "T" Steel forged in one piece.

Renewable Steel Shoes are bolted on to the underside of the frame to take the wear, so that no wear comes on the frame itself. These shoes can be renewed at a slight expense, making the harrow practically inde-

expense, making the harrow practically indestructible.

The Teeth are made from the best Open Hearth Steel, finely tempered in oil and fully warranted, and can be instantly raised or lowered by means of the levers. As the point of the tooth wears, same can be lowered by adjustment on the tooth bar

The Shape of the harrow is correct to make it run steadily and smoothly and permit the teeth always to work at a uniform depth; teeth can be easily raised or lowered, to transport from field. Construction is simple. It is durable and does not require a man and wrench to keep it in work-

GRITCO LEVER WHEEL HARROW

The Main Frame is constructed entirely of double "I" steel of high carbon. The frame surrounds the teeth, and there are no projecting parts to engage obstruction. Cross Bars are 1½-inch structural tubing, and have no holes drilled through them; compression clamps instead of bolts being used for fastenings.

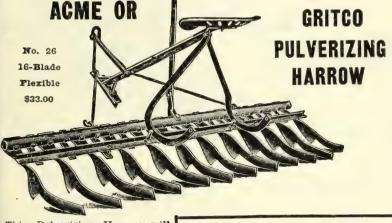
The Arrangement of Teeth—The front bar carries four, middle bar six, and the Arrangement of Teeth—The front bar carries four, middle bar six, and the frame of regulation size, 1% inches wide, ¼-inch thick, are made of the total properties of the first paints and fully guaranteed against imperfection.

Tooth Holders—By our method of constructing tooth holders, or clamps, teeth may be readily adjusted and kept in line.

The Carrying Wheels are constructed with broad rims and the bearing surfaces are chilled. The Lever Racks are strong and durable, being made of maleable iron. It is painted with a heavy coat of green paint.

15 TOOTH \$30.00 19 TOOTH \$35.00

17 TOOTH \$32.00 23 TOOTH \$43.50



THE BUTTS REVERSIBLE HARROW TOOTH POINTS



Can be used on all Spring Harrow Teeth. List Price, 42c. Price, each, 25c. Osborne. List, 34c. Cur Price, 20c. Deering. List, 34c. Cur Price, 20c. SYRACUSE REVERSIBLE EARROW TOOTH POINTS.

List Price, 32°. Retail Price, 20c. Michigan List Price, 45c. Retail, 25c.

SPRING HARROW TEETH

For All Leading Harrows.



When taken in full sets, special

This Pulverizing Harrow will pulverize either light or heavy soil, and do it better than other harrows. The action of the blades is to pulverize the soil and at the same time put the ground in a smooth condition, thus producing an ideal seed bed.

It produces the work of a disk and spike tooth harrow. It can be adjusted by the use of the lever to any desired depth, and will not drag out the filth, but cut it up underneath where it will rot and improve the soil.

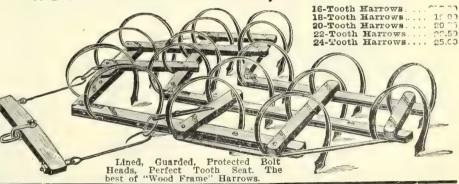
It is the lightest weight and lightest draft harrow on the market.

\$24.00 20.00

Mo.

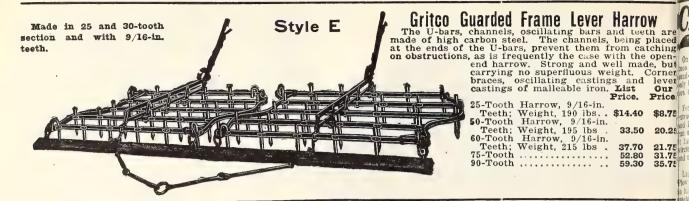
WOOD FRAME HARROW, STEEL LINED

price.

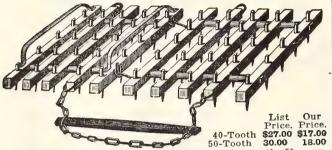




27.5

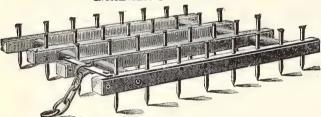


RALTIMORE DOUBLE HINGE HARROW



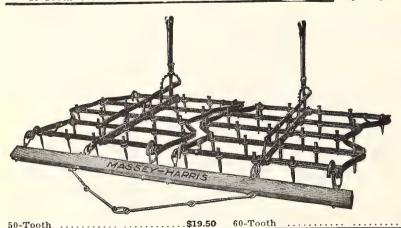
This is a two-section, wood-frame, spike tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

GARDNER'S HARROW



This Harrow is similar to the Baltimore Double Hinge Harrow, noted above, only it is made in one section instead of two. It is designed to be used with one horse. We furnish this harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 25 teeth, cutting 3 feet 8 inches wide.

\$10.00\$16.00 25-Tooth 30-Tooth



CRITCO WOOD BAR LEVER HARROW



No. 2450—2-Section, 50-9/16-inch Teeth...... \$40.00

No. 2560—2-Section, 60-9/16-inch Teeth...... 43.50

Massey-Harris Spike Tooth Harrow

Service of a lasting order is built into this simple implemen just the same as it is into the Massey-Harris machines that are far more complex. High carbon steel predominate throughout the construction and all the parts have ample stiftness both to retain their shape under real hard usage an to resist the twisting strains to which they are subjected i field operation.

stout Frame Sections. Two end bars made from steel char nels, five cross bars made from steel "U" bars and a wid steel centre bar make up the frame sections. The channel bar it the cross or tooth bars at their ends, hold them in lir and prevent them from catching trash. The center bar act as an additional tie for the cross bars and also furnishes support for the shifting lever ratchet. At the left rear coner of the sections and at the right front one a stout bracof malleable iron is used. The arrangement of the cross bars is such that although each of them has the same tool spacing none of the teeth trail.

Strong tooth fastening. Each tooth is he in place by a U-shaped steel clamp and one bo. The clamp furnishes a double bearing for th tooth, around which it fits snugly at two point and sets in the "U" of the bar so that the bar and the bar the transfer of the tooth are the bar to the bar the ba and sets in the "O' of the bar so that the bar edge of the tooth is brought up tightly into note es provided for the purpose in the two bar edge. The tooth is thus rigidly held at four point Sufficient clearance is provided between the claim and the bottom of the "U" of the tooth bar f taking up wear.

Flexible construction. The tooth bars are join to the end bars in such a way that they can him perfectly and still permit each frame section conform to the lay of the land. The harrow thus given ample flexibility to work successful in all fields. This flexibility is increased by t method of hitching the sections to the draw be wherein each one is attached separately. T position of the teeth in relation to the surface the ground is controlled by a lever on each se the ground is controlled by a lever on each setion and is easily and quickly changed. At t four corners of each section a runner tooth placed to facilitate transportation to and from the field. \$22,00 75-Tooth

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BUSH AND BOG PLOW AND HAR

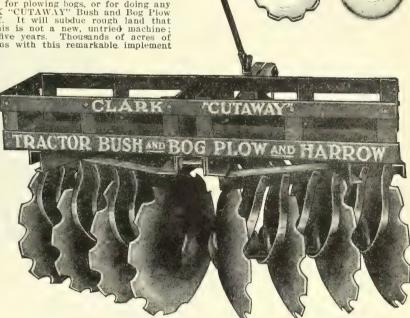
On many farms are fields lying out as waste, simply because their owners do not now how cheaply and quickly they may be put under cultivation. The old, expensive and-labor method is no longer necessary. Much work that could be done heretofore aly by slow, tedious and hard labor with an axe and bush-knife, shovel and pick, can ow be done with the CLARK "CUTAWAY" Bush and Bog Plow and Harrow.

For cutting brush land and cut-over timber land, for plowing bogs, or for doing any straordinary hard plowing and disking the CLARK "CUTAWAY" Bush and Bog Plow and Harrow stands in a class absolutely by itself. It will subdue rough land that in not be worked with ordinary implements. This is not a new, untried machine; has been on the market for more than thirty-five years. Thousands of acres of irgin land have been turned into productive farms with this remarkable implement and new uses are being found for it constantly.

Land reclaimed by the Bush and Bog low and Harrow pays over and over, increased value alone, the cost of the nachine, time and labor. This morever does not end the usefulness of the lachine, for it can afterward be used or any regular tillage and is especially ood for disking heavy stubble such, as orn. Among those farmers and orchards who till unusually deep it is used or general cultivation. Since tractors ave come into general use, the Bush nd Bog Plow and Harrow has become ery popular as an orchard implement or chopping up sod and disking in cover rops. rops.

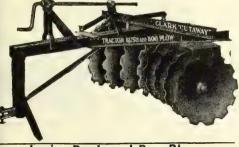
The late model tractor machine has eavy angle steel frame, and the large teel weight box which is furnished as n extra at a very low price is strongly ecommended. Either lever or screw ontrol will be furnished at the same

The disks on an implement subjected to such extraordinary abuse as the Bush and Bog Plow and Harrow must be of the very highest quality, and that is another reason for insisting upon a geument CLARK "CUTAWAY" Implement



TRACTOR BUSH AND BOG PLOW WITH WEIGHT BOX

TRACTOR BUSH AND BOG PLOW WITHOUT WEIGHT BOX



Junior Bush and Bog Plow and Harrow

with the famous forged-edge disks of cutlery steel which are also heat-treated. Cutout disks are regular equipment and are recommended for quickly and thoroughly
chopping up the toughest kind of soil, but if the purchaser has a personal preferance for solid disks, they can be supplied for the same price. Oiling is done
through the hollow standard by means of spring cap oil cups. Bearings are of oilsoaked hardwood which have long been demonstrated to be the best bearings for
disk implements.

disk implements.

For many years before tractors were used, the CLARK "CUTAWAY" Bush and Bog Plow and Harrow was sold in large quantities for horse use and many horse-drawn machines are still used. The small illustration below shows the implement equipped with long pole and four-horse hitch which includes double neckyoke. The frame on the horse-drawn tool is made of heavy selected oak. Four fairly good horses are required but where only two horses are available the Junior Bush and Bog Plow and Harrow can be used. The horse-drawn Bush and Bog Plow and Harrow can be furnished with a tongue truck, stub pole, and four-horse eveners if preferred at slight cost.

A Fordson Tractor can easily handle the regular Tractor Bush and Bog Plow.

A Fordson Tractor can easily handle the regular Tractor Bush and Bog Plow and Harrow with 8 24-in. disks. A new size has just been added to the line for 15-30 tractors, having 12 24-in. disks, A transport truck for transporting the implement from one field to another can be furnished as an extra

This implement is made for the farmer who has only two horses available but needs an implement to do the same kind of work at the large four-hourse or tractor-type Bush and Bog Plow and Harrow. The Junior Machine is constructed exactly the same as the larger type so an extra illustration is unnecessary. But the Junior size instead of having 24-in, disks is equipped with 8 20-in. Thisks, and all other parts of the implement are correspondingly lighter. Long pole, two-horse doubletrees and neckyoke make up regular equipment. This machine is furnished with lever for adjusting the gangs and has a seat. The frame is of heavy first grade quipment can also be supplied if preferred.



4-H BUSH AND BOG PLOW AND HARROW

SIZES AND SPECIFICATIONS

,	TRACTOR :	BUSH AND	BOG PLOW	AND HARROW	
No. of	Diam. of	Width			Retail
Disks	Disks	of Cut	Frame	Wt.	Price
8	24-in.	5 1/2 ft.	Steel	655	\$110.70
Steel	Weight Bo	x, Extra		90	
12	24-in.	8 ft.	Steel	915	
Steel	Weight Bo	x, Extra		100	. 7.00

4-HORSE BUSH AND BOG PLOW AND HARROW

No. of Disks	Diam. of Disks	Width of Cut	Frame	Wt.	Retail Price
8	24-in.	5½ ft.	Wood	680	\$110.70
	JUN	IOR BUSH	AND BOG	PLOW AND	HARROW
No. of	Diam. of	Width			Retail
Disks	Disks	of Cut	Hitch	Wt.	Price
8	20-in.	415 ft	2-h	440	\$ 73.30

SINGLE ACTION DISK HARROW

The CLARK "CUTAWAY" Single Action Harrow will appeal to the practical farmer who wants a harrow that will give him the greatest amount of work with the least draft and with the least cost. Note in the illustration that the head is built directly on top of the gangs, with the tongue, seat, braces and levers all fastened to it, thereby making the disks carry the entire weight of the machine. This construction gives such perfect balance that there is practically no weight on the horses' necks, and makes the use of a tongue truck a matter of choice. Without the tongue truck the hitch is placed back close to the machine and the draft is the very minimum. The illustration below shows the Single Action Harrow equipped with the CLARK "CUTAWAY" Tongue Truck.

There is no heavy truss construction forward of the

There is no heavy truss construction forward of the There is no heavy truss construction forward of the gangs which would tip the harrow down in front, thereby increasing the draft. Instead of power being wasted in lifting the harrow out of the ground, it is all utilized in pulling the harrow in a horizontal direction and allows the machine to "take" the ground. The weight of the driver and most of the entire weight of the machine is carriel by the disks themselves, increasing the efficiency of the harrow by the weight forcing the disks into the ground.

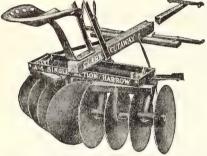
selves, increasing the efficiency of the row by the weight forcing the disks into the ground.

The gangs on the CLARK "CUTAWAY" Single Action Harrow can be swung end for end, so that, the soil may be thrown either out or in. To reverse, it is only necessary to pull the cotter pins that hold the lever links, drop the links, This reversible feature is especially valuable in orchard work for it enables the fruit grower to throw the soil towards his trees or pull it away. On acount of the way the harrow is built the reversing feature does not increase the cost nor does it necessitate buying a special harrow.

The fact that a tongue truck is not absolutely necessary on a CLARK "CUTAWAY" Single Action Harrow means a saving of several dollars as well as giving the advantages described above. The steel head forms a weight box so weight can ing of several dollars as well as giving the advantages described above. The steel head forms a weight box so weight can be added without the necessity of spending more money for weight pans as extras. Harrows can be furnished with woo heads instead of steel at a slight reduction in price.

The fact that a tongue truck is not absolutely necessary on a CLARK "CUTAWAY" Single Action Harrow means a saving of several dollars as weight box so weight can be added without the necessity of spending more money for weight pans as extras. Harrows can be furnished with woo heads instead of steel at a slight reduction in price.

The fact that a tongue truck is not absolutely necessary on a CLARK "CUTAWAY" disks are the only ones that have forged edges, this forging process makes a hard but solid disks will be furnished at the same price. At the left is illustrated the given of the control of the cutout disks are regular equipment but solid disks will be furnished at the same price. At the left is illustrated the given of the cutout disks are regular equipment but solid disks will be furnished at the same price. At the left is illustrated the given of the cutout disks are regular equipment but sol



No. o Disk 8 10 12 14 8 10 12 for	Width of Cut 4-ft. 5-ft. 6-ft. 7-ft. 4-ft. 5-ft. 6-ft. 6-ft.	Hitch 2-h 3-h 4-h 4-h 2-h 3-h 4-h 4-h 4-h	Wt. 255 295 350 460 300 350 430	Retail Price \$42.30 49.90 56.65 64.35 46.35 54.35 64.85 11.75



Single Action Harrow--Extension

The importance of thorough orchard tillage is now so well recognized among fruit growers that they want tillage implements which will give them not only the highest quality of work but which will also cover the maximum amount of area possible. In orchards where the trees are headed low ordinary disk harrows can do only part of the work.

The CLARK "CUTAWAY" Reversible Single Action Harrow—Extension is built along exactly the same lines and has the same lines and has the same properties.

valuable features as the Single Action Harrow— Regular described above. An orchard disk harrow to be efficient must have reversible gangs. Read above how easily the gangs on

						this	harrow can be re-
	No. of	Diam.	Width			Retail	versed. There is
Size	Disks	of Disks	of Cut	Hitch	Wt.		no other harrow
A-4	8	16-in.	6-ft.	2-h	280	\$44.55	built on which the
A-5	10	16-in.	7-ft.	3-h	320	52.20	gangs can be re-
A-6	12	16-in.	8-ft.	4-h	395	60.70	
X-4	8	18-in.	6-ft.	2-h	340		ly and easily as
X-5	10	18-in.	7-ft.	3-h	385	57.20	on the CLARK
X-6	12	18-in.	8-ft.	4-h	460	67.85	"CUTAWAY."
S	olid or	cutout	disks	will be	furr	ished a	at the same price

One Horse Disk Harrows



The Utility Harrow as is true of the othe CLARK "CUTAWAY One Horse Disk Har rows, is designed an constructed speciall for one-horse require

for one-horse requirements. While the harrow illight and easy to handle, at the same time it is a versturdy machine and does thorough job of disking. It is particularly popular amon truck farmers and marke gardeness.

The CLARK "CUTAWAY" Utility Harrow has 10 14-it disks, cuts 4 feet wide. The gangs can be reversed in the same manner as the larger Single Action Disk Harrows discribed above. One handy lever easily sets the gangs at different working angles. The frame is of angle steel construction and all parts are of the same high quality as in a other CLARK "CUTAWAY" Implments. Disks are of hea treated cutlery steel with the edges forged sharp. Cutoudisks are regular equipment but solid disks will be furnished at the same price.

No. of	Diam. of	Width				Reta
Disks	Disks	of Cut	Hitch	Wt.	.*	Pri
10	14-in.	4-ft.	1-h	200		\$34.0

at the same price.



CLARK "CUTAWAY" DOUBLE ACTION TRACTOR DISK HARROWS

CLARECUTAWAY TO ACTION HARROW

The CLARK "CUTAWAY" Duble Action Tractor Harrow was the first disk harrow built specially for tractors. Purchasers of tractor disk harrows should make sure that they get a machine that is constructed specially for tractor use and not simply a horse-drawn harrow with tractor equipment. While the harrow may be of similar design as a horse-drawn harrow, it should, however, be made of heavier material, have more standards and be strongly braced to withstand the more severe strain caused by tractor power.

The CLARK "CUTAWAY" Double Action Tractor has all of these qualities, but at the same time is a light draft machine both on account of its type of construction and because it is not exceptionally heavy due to the fact that lightness and ample strength secured by the use of good material.

This tractor disk harrow is built along the same lines as the famous Double Action horse-drawn harrow illustrated and described below. Be sure to read this description so you will be acquainted with these exclusive features which make for more thorough work but with surprisingly light draft.

ingly light draft.

Cut out disks are regular equipment but solid disks will be furnished at the same price solid disks will be furnished at the same price or any combination of the two types of disks. Both kinds are of Cutaway quality being made of high grade steel, heat-treated and with the edges forged sharp. Harrows will be equipped with levers or with screw control as preferred, at the same price.

The unit main frame construction forces the rear disks to cut avacety half may between

The unit main frame construction forces the rear disks to cut exactly half way between the front disks at all times, and also makes the front and rear disks cut the same depth and do the same amount of work. The new channel steel pole equipment and the improved special hitch give ample flexibility and easy turning without sacrificing the indispensable value of the unit frame construction.

SIZES AND SPECIFICATIONS No. of Diam. of Width Retail. Cut Weight Price lize Disks Disks Cut 4½ ft. 5½ ft. 6½ ft. 7½ ft. 8½ ft. 10½ ft. 6½ ft. 7½ ft. 585 16 18-in ₹-4 ₹-5 108.45 675 18-in. 24 18-in. 18-in. 130.00 1085 33 18-in. 165.00 18-in. 112 50

Double Action Disk Harrows

with 18-in, disks and different hitches can be

W For Horses

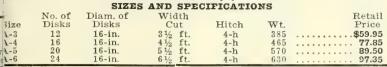
The farmer who realizes the value of thorough tillage and wants a harrow that saves time, aves horses and gives long service, will appreciate the superiority of the CLARK "CUTA-WAY" Double Action Harrow. Letters from farmers who have received twenty years' service, and more, from their CLARK "CUTAWAY" Double Action Harrows, testify to the long if and satisfactory results given by these good harrows.

CLARK "CUTAWAY" Double Action Harrows are known for their light draft as well as for the amount and quality of work hey do. Notice in the illustration how all four gangs of disks are struction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front and rear truction makes a very compact machine. The front disks. As the lisks are spaced six inches apart, this means there is a disk cutting the soil every three inches; the front disks throwing out and the rear disks hrowing in. You can easily see that this means the most thorough pulverizing you can possibly get with a disk harrow. Such results cannot be obtained with a loose-toupled tandem harrow which permits the rear disks at times to trail in the tracks of the front disks.

The harrow is self-supporting so no tongue truck is necessary. The pole is districted.

The harrow is self-supporting so no tongue truck is necessary. The pole is jointed so there is no weight on the horses' necks, but the doubletrees can be moved forward and the harrow used without the tip pole if desired.

Solid or cutout disks will be furnished at the Retail same price or any combination of the two types, Price but cutout disks are regular equipment unless otherwise ordered. These harrows are also made





obtained on any sizes.

The illustration at the left shows the CLARK "CUTAWAY" horse-drawn Orchard Plow which has been so popular among fruit growers throughout the country for more than thirty years. It may be familiar to some as the California Orchard Plow which it was called until recently.

The machine is built to reach out underneath low-hanging branches where it is not possible to cultivate with ordinary implements. The flat coulter disks and the steering wheel absorb the side thrust and keep the machine running straight. These implements can be furnished with extension head which increases the reach of the plowing gang by two feet. Specifications of the three sizes are given below.

The Tractor Orchard Plow is built along the same lines as the horse-drawn machine. It is constructed much heavier throughout and has a galvanized sheet iron shield. There is a large under-slung weight box at the rear. The machine neasures ten feet wide over all and specifications are given below. Send for special folder describing these implements in detail.

SIZES AND SPECIFICATIONS

nents	in detail.	SIZES A	ND SPEC	IFICAT	CMOT			TRACTOR	ORCHARD	PLOW	
taţ	Plowing	Coulter	Width			Retail	Plowing	Coulter	Width	Weight	Retail
Size	Disks	Disks	of Cut	Hitch	Wt	Price	Disks	Disks	of Cut		Price
10 No. 3	3, 22-in.	2, 17-in.	24-in.	2-h	340	\$54.75	6, 22-in.	4, 18-in	36-in.	775	\$125.00
-No. 4	4, 22-in.	3, 18-in.	30-in.	2-h	410	69.00					*
No. 5	5, 22-in.	3, 18-in.	36-in.	2-h	440	74 65	Same machine	without tre	e gaurd		115.00

BALTIMORE GARDEN BARROWS



Made of seasoned wood, double frames, firmly bolted, iron

No. 4, MEDIUM SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 19½ inches; depth, 11 inches; width at handles, 23¾ inches. Length of handles, 48 inches; wheel, diameter, 18 inches; tire, 1¾x3-16-inch. Sides painted green, balance of barrow red, sides striped. Weight, 50 lbs.

Steel or Wood Wheel, List Price, \$12.00. Our Special Price, \$7.50.

No. 5, LARGE SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 21 inches; depth, 12 inches; width at handles, 23% inches. Length at handles, 51 inches. Wheel diameter, 18 inches; tire, 1%x3-16 inches. Weight, 60 lbs. Finished as above.

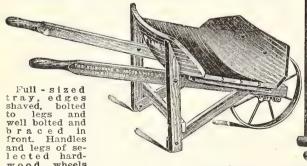


No. 1 SPECIAL GARDEN BARROW

Size—30 inches long, 24 inches wide in front, 25 inches in back. Sideboards—12 inches high, 30 inches long. Handles—5½ feet long, 2¾x1¾ inches. Wheel—21 inches diameter, 6 spokes. Hub—3-inch diameter in center. 2-inch diameter at

No. 1 Barrow, with 1½-inch tread. Weight, 60 lbs. Six crated in one package, 56½ cubic feet. Steel or Wood Wheel, List Price, \$14.40. Our Special Price, \$9.00.

THE BALTIMORE CANAL BARROW



wood, wheels
Steel Wheel, List Price, \$8.00. Our Special Price, \$5.00.
painted. Furnished in steel wheel.
Weight, with steel wheel, 48 lbs.

THE PLAIN BOLTED CANAL BARROWS.

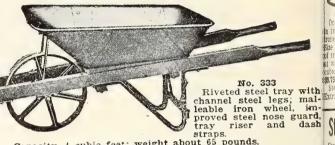
Ordinary size; bent tray; legs bolted to handles and well aced. Furnished with steel wheel. Weight, with steel braced. Furn

Steel Wheel, List Price, \$6.40. Our Special Price, \$4.00.

SOLID PRESSED STEEL TRAY BARROW

No. 100 Malleable iron wheel; channel steel legs; im-proved steel nose guard; tray riser and dash straps. \$10.80 List Price. Our Special Price, \$6.75

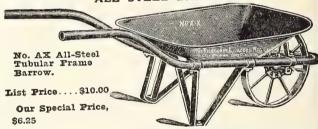
RIVETED STEEL TRAY BARROW



Capacity, 4 cubic feet; weight about 65 pounds.

List Price, \$11.60 Our Special Price

ALL STEEL BARROW



TUBULAR FRAME SOLID PRESSED

STEEL TRAY BARROW

No. A4-Tray 15 gauge of

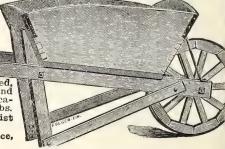
No. A4—Tray 15 gauge steel; capacity, 3 cut. ft.; weight 70 pounds; wheel, 17 in. diameter; tire, 1 ½x% in.; nine 9-16 in. spokes, shouldered and riveted; axle. \$11.20 Our Special Price. \$7.00 No. B5—Tray, 14 gauge steel; capacity, 5 cubic feet; weight \$5 lbs.; mounted on same frame and wheel as No. 4. For general purposes and light running. It will stand hard usage. List Price, \$13.20 Cur Special Price. \$8.50



Top is iron-banded, strongly braced and bolted; 3 bushels ca-pacity; weight, 60 lbs.

Steel Wheel, List Price, \$14.00.

Special Price, Our \$8.50.



Solid Pressed Steel Tray Coal and Coke Barrow No. 10



One-piece tubular steel frame extending around n front of wheel. Frame strongly braced and well roned. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top if tray, 41½ in.; width of top of tray, 33 in.; depth t wheel, 12 in.; depth at handle, 6 in.; capacity, 6 ubic feet; weight, 110 lbs. List Price, \$15.60. Retail, 10.75

9.75. Steel Wheels. List Price, \$4.00; Retail, \$2.50. Extra Trays. List Price, \$11.50; Retail, \$6.75.

Straight Handle Stone Barrow

Strong, well made, iron strapped over bottom, and vell bolted together. Handles 6 feet long; legs, 12 nches long; bottom, 1½ inches thick by 23 inches vide by 27 inches long; dash, 10 inches high; weight, 14 pounds. List Price, \$13.60; Retail, \$8.25.

Straight Handle Brick Barrow

List Price, \$17.20. Retail, \$10.75.



We are prepared to quote special prices on Trucks every description. If you want anything special, of every description.

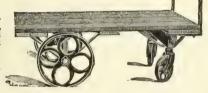
۹o.	Size	of I	Platí	orm	ì.		Wgt.	Whs. Ins.		Retail.
2—2 3—2 4—3	ft. 6	in.	by 3	ft.	6	in.	$100 \\ 115 \\ 125$	$7\frac{1}{2}$ $7\frac{1}{2}$ $8\frac{1}{2}$	\$33.60 36.00 40.80	\$21.00 22.50 25.50

Can furnish Special Trucks at lowest prices; also

Improved Four-Wheel **Platform Truck**

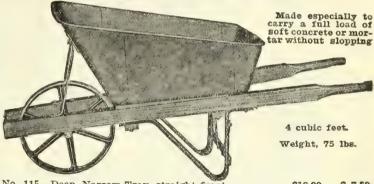
For Can-ning House, Railroad Stations and Warehouse.
The ap,
strong and
vell made.

Vo.



Size	Diam.	Diam.			
Platform	Whs.	Caster	Weight	List	Retail
1-2x4 ft.	12 in.	6 in.	152 lbs.	\$48.00	\$30.00
21—3x5 ft.	18 in.	9 in.	255 lbs.	72.00	45.00

Concrete and Mortar Barrow



lo.	115—Deep, 444—Deep,	Narrow Narrow	Tray, Tray,	straight	front a	nd corners	\$12.00 12.40	\$ 7.50 7.75
					AL OHE W	110 00111010		



Baltimore Store Trucks RETAIL, \$4.00. LIST PRICE, \$6.50.

BALTIMORE STORE TRUCK

NEW YORK PATTERN

HALF STRAPPED.	FULL STRAPPED.
List Retail Price. Price.	List Retail Price. Price.
No. 1\$11.76 \$ 7.50	No. 1\$13.04 \$ 8.75
No. 2 13.44 8.50	No. 2 14.40 9.00
No. 3 16.16 10.10	No. 3 16.80 10.50
No. 4 19.36 12.10	No. 4 20.48 12.80
BARREL AND WESTER	

	NEW	YORK	PATTER	8N.—SI	ZES.
	Length Handles	Width Nose	Width at Upper Bar	Diam. Whs.	Weight
70. 70. 70.	1 4'0" 2 4'5" 3 4'8" 4 5'0"	12½" 14" 15" 16"	18" 19½" 21" 22½"	8" 9 ½" 9 ½" 11"	42 lbs. 44 lbs. 72 lbs. 85 lbs.

NEW YORK PATTERN.



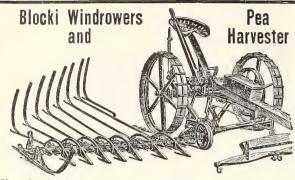
Wagon or Truck Skids

These skids are made from strong, select hickory side bars one end being ironed with wedge shaped steel points, between which the side bars extend which prevents them from splitting. The upper end is ironed in a similar way only it is equipped with hooks to fasten to the body of the vehicle.

Size List Price Retail Price Size List Price Retail Price 6 Ft. \$13.60 \$3.00 10 Ft. \$12.56 \$11.50

Size 6 Ft. 7 Ft. 8 Ft \$ 8.00 9.00 10 Ft. 12 Ft. \$19.56 22.96 15.30 13.50 17.00 10.00





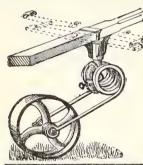
Use the Blocki Windrower for harvesting the seed crops of red, alsyke, mammoth and alfalfa clovers. Sometimes also used for harvesting flax, buckwheat, and even short tangled grain. Is an excellent tool to harvest cow peas, beans, etc. Can be readily attached to any mower and gives the best satisfaction. The guards are strong, being made of malleable iron; the rods retain their shape because they are made out of the right kind of steel.

Blocki Pea Harvester No. 7X consists of 7 Guards, 7 Rods and Divider.

Blocki Pea Harvester No. 8X consists of 8 Guards, 8 Rods and Divider.

Blocki Pea Harvester No. 9X consists of 9 Guards, 9 Rods Prices: and Divider.

No. 7X	\$25.00
No. 8X	27.50
No. 9X	30.00
Extra Guards, each	3.00
Windrower for 4½- or 5-ft. Mower, Rods Only	15.00
Windrower for 6-ft. Mower, Rods Only	17.25



KEYSTONE TONGUE SUPPORT

For Harvesting Machinery and Disk Harrows.

This Tongue Support is simple and light in weight. The springs are made of best %-inch spring steel. The coils are 4½ inches in diameter, and have arms extending 12 inches. The wheel is 11½ inches high, with 2¾-inch tread, thus assuring a light draft. No holes need to be bored in the tongue to fasten this support, thus allowing the tongue all its strength. Price, \$5.00.

Plow Bolts



Lgth		Retail	List	Retail	List	Retail
	3/8	Each	7/16	Each	1/2	Each
11/4	\$2.75		\$3.75	4c	\$5.25	4c
$1\frac{1}{2}$	2.90	4c	4.00	4c	5.50	
1 3/4	3.05	4c	4.25	4c	5.75	4c
2	3.20	4c	4.50	4c	6,00	4c
21/4	3.35	4c	4.75	4c	6.30	4c
2 1/2	3.50	4c	5.00	4c	6,60	4c
2 3/4	3.75	4c	5.30	4c	6.90	5c
3	4.00	4c	5.65	4c	7.25	5c
			4 3 4 7 7 7 7	and the second second	-	-

Binder or Conveyor Canvases

No. To fit Osborne Binder: Size	Year Price	差
CA2012-Upper Elevator, New Oshorna 977/01/	1906-09 \$6.25	
CA4044—Upper Elevator New Oshorna 99-493/	1909 6.25	
CA2023—Lower Elevator, New Osborne 90x481/2	1909 6.75	
CA2008—6-ft. Platform, Columbia and	1303 6.73	里
New Osborne Binder	1000	皇
CA2009—7-ft. Platform, Columbia and	1896 8.7 5	催
New Ochorno Binder, Columbia and		老
New Osborne Binder	1896 10.00	畫
CA2010—8-ft, Platform, Columbia and		藍
New Osborne Binder182x42¾	1904 11.50	THE REAL PROPERTY.
To fit Decring Binder:		華
HA3199—Upper Elevator, Ideal Binder, 92x43	1899-09 6.23	報
HA4562 Upper Elevator, Ideal Binder, 93X45		
HA4562—Upper Elevator, Ideal Binder. 90x47	1908 627	
HA1775—Lower Elevator, Ideal Binder, 8°x50%	1899 6.50	
HA1772—6-ft. Platform, Ideal Binder.133½x43¾	1899 873	聖

HA1773—7-ft. Platform, Ideal Binder.157 ½ x43 ¾ HA2791—8-ft. Platform, Ideal Binder...192x43 ¾ 11.50 To 6t McCormick Birder:
BD65 —Upper Elevator, R & L Binder. 91x474/
BA68 —Lower Flevator, R & L Binder. 97x51BC667—6-ft. Platform, R & L Binder. . 134x45
BB168—7-ft. Platform, R & L Binder. . 158x45
BC669—8-ft. Platform, R & L Binder. . 182x45 6 7 3 8 75 3 10.00 11 50 1901-1901

LINK CHAIN DELTING

	aw CL	AHIA	DEFI	
		Av. Ult	. Price	Price
	Links	strengt	h perft.	all per
No.	per ft.	lbs.	plain lin	
25	13.3	700	17c.	Зc.
32	10.4	1100	17c.	Зc.
33	8.6	1190	16c.	3c.
34	8.6	1300	18c.	Зc.
35	7.4	1200	20c.	3c.
42	8.75	1500	19c.	4c.
45	7.4	1600	18c.	3c.
48	6.	1660	23c.	4c.
50	8.7	1900	22c.	5c.
51	10.4	1900	24c.	6c.
52	8.	2300	23c.	. 5c.
521/2	7.9	2866	32c.	6c.
55	7.4	2200	20c.	5c.
62	7.25	3100	27c.	6c.
65	5.66	2460	30c.	8c.
72	5.9	4240	45c.	8c.
721/2	7.25	4590	550	9c.

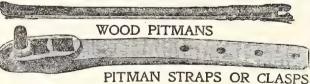
3600

55c.

42c.



KNIFE





BINDER CANVAS SLATS

Each, 10c.

KNIFE CLIPS Price. To Fit the Following Machines: Milwaukee, Jl. Osborne, E36. Osborne (Columbia), K256. Plano, J46, J106, J325. Wood, 171, 1432.

WOOD PITMANS

WEARING PLATES

To Fit the Following Machines:
Champion, H315, Under Shoe Cap.
Champion, H282, Under Clips.
Deering, D1038, Under Clips.
Deering, 1040, Under Shoe Cap.
Deering, D1455, Under Shoe Cap.
McCormick, M468, Under Clips.
McCormick, M490, Under Shoe Cap.
Milwaukee, PK156, Under Shoe Cap.
Milwaukee, PK156, Under Clip PJ1.
Milwaukee, PG157, Under Shoe Cap.
Osborne, K325, Under Clips
Osborne, K326, Under Shoe Cap.
Price \$0.1

PITMAN STRAPS OR CLASPS

To Fit the Following Machines:
Malleable Decrine, D464, D465,
D605, D606, D470, D607, Each...\$.30
Malleable McCormick, M556, M557,
M147, M304, M315, Each... .30

SPRING COTTERS



Assorted, box of 100......75c

PITMAN WOODS

Finished and Bored, Without Straps
Bolts and Boxes. To fit the following
machines: Deering (Ideal Mower). Mc
Cormick (Big 4 Mower). Milwaukee
(No. 6 Mower). Plano (Jones Mower) Each, 60c.

PITMAN BOLTS

To Fit the Following Machines:

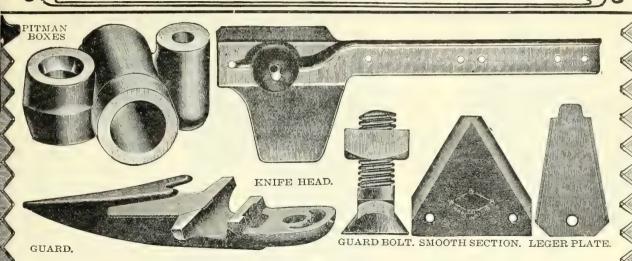
Deering Knife End. Deering Box End McCormick. M322, with Nut; M488 with Nut 2½x7-16; with Nut 3x7-16.

M'lwaukee, with Horn Nut. PG174.
M'lwaukee, with Ratchet Nut, PG175.
Osborne, Box End (Long).
Osborne, Knife End (Short).
Wood, with Nut. \$.1 Plano ' Milwan Adman

ALL PRICES IN CATALOG SUBJEC! TO CHANGE WITHOUT NOTICE.

Mocorr

Chami



MOWER SMOOTH SECTIONS, KNIVES AND GUARDS

Made to fit the following Machines.	Size of Section.	Retail Price of Section	No. of Guard.	Retail Price of Guard	No. of Knife Head.	Retail Price of Knife Head.	Kni comp 4½ ft.		Pitman Boxes No.	Retail Price of Pitman Boxes.
Wood	3x31/8	\$.08	L	\$.35	K 366	\$.55	\$3.00	\$3.25	AK124	\$1.45
Wood	3x3 1/3	.08	2355	.35	2479	.55	3.00	3.25	A2301	1.45
Wood	3x3 1/8	.08	A	.35	1680	.55	3.00	3.25	A2301	1.45
Wood	3x3 1/8	.08	L	.35	2862	.55	3.00	3.25	2941	1.20
Wood	3x2 5/8	.08	P. P.	.35	1810	.55	3.00	3.25		
Deering	3±3½	.08	D 698	.35	D 463	.55	3.00	3.25	D711	.65
Deering	3::31/4	.08	D 698	.35	F123	.35	3.00	3.25	D334	.90
McCormick	3 x3 3/16	.08	M462	.35	M139	.55	3.00	3.25	· M317	.60
McCormick	3x3 1/16	.08	M253	.35	M139	.55	3.00	3.25		
Champion	3x3 3/16	.08	A881	.35	A870	.55	3.00	3.25	B6831/2	.30
Champion	3x3 5/16	.03	A 41	.35	A415	.55	3.00	3.25 .		
Champion	3 x3 9/16	.08	A 42	.35	A415	.55	3.00	3.25	A747	.75
Champion	3x3 3/16	.08	A811	.35	A415	_* 55	3.00	3.25		
Osborne	3x3 3/16	.08	E514	.35	K774	.55	3.00	3.25	K826	.80
Osborne	3x3 High Punch	.rs	K 280	.35	K284	.55	3.00	3.25	K278	.80
Osborne	3x3 Low Punch	.08	K 72	.35	K212	.55	3.00	3.25		
Johnston	3x3 3/8	.03	1811	.35	2211	.55	3.00	3.25	2207C	.75
Johnston	3x31/8	.08	17	.35	124	.55	3.00	3.25	257	.752
Plano	3×3 1/8	.^3	J110	.35	J 94	.55	3.00	3.25	J100-J9	9 .70
Milwaukee	3x31/ ₈	.(3	P.K.5	.35	P.G.6	.55	3.00	3.25	P.J.50	.70
Adriance Buckey	e 3x3½	.^3	3087	.35	55 7F	.55	3.00	3.25		[-
Dain	3x3 3/16	.08	Z 5	.35	Z 4	.55	3.00	3.25	Z 162	.80

BINDER SICKLE SECTION, GUARDS AND KNIVES

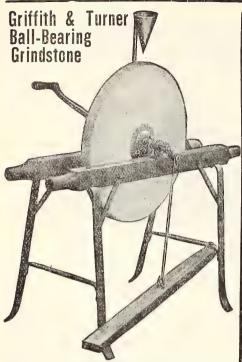
Machines.	Size of Section	Retail Price of	No. of	Retail Price of	No. of Knife	Retail Price of		Knives complete	е
Made to fit the following	This of Section	Section.	Guard.	Guard.	Head.	Knife Head.	'6 ft.	7 ft.	8 ft.
Wood Binder	. 3 x2 ½	\$0.08	W	\$0.35	H 2139	\$0.55	\$3.50	\$3.75	
Wood Binder	. 3 x2 3/16	.08	H171	.35	H 1150	.55			
Deering Binder	. 3½ x2½	.08	286	.35	H 877	.55	3.50	3.75	\$4.00
Deering Binder	. 31/8 x21/8	.08	286	.35	H 260	.55	3.50	3.75	4.00
McCormick Binder	. 3 x21/s	.08	H 495	.35	B 23	.55	3.50	3.75	4.00
Champion Binder	. 3 x25%	.08	U 53	.35	1852	.55	3.50	3.75	
Osborne Binder	. 3 x2½	.08	D300	.35	B 587	.55	3.50	3.75	
Johnston Binder	. 3 x23/s	.08	50 A.	.35	L 296	.55			
Plano Binder	. 3 x2 3/16	.08	T 300	.35	L 395	.55	3.50	3.75	
Plano Binder	. 3 x2½	.08	L 67	.35	L 66	.55	3.50	3.75	
Milwaukee Binder	. 31/4 x21/4	.08	J 76	.35	H 41 1/8	.55	3.50	3.75	
Adriance Binder	. 3 x2½	.08	1265	.35	1245A	.55	3.50	3.75	

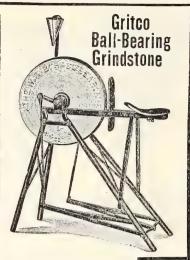
Leger Plates for all Machines, 6c. each. Section and Guard Rivets, 15c. lb. Guard Bolts for all Machines, 5c. each.

Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head. also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head; also give number of cutting sections.

GUARD RIVETS







The Gritco Ball-Bearing Grindstone

s one of the strongest built, and is practically indestructible.

PRICE\$8.75

The G. & T. B. B. Grindstone has a combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles. Stones usually furnished vary in thickness from 1% to 2% inches. Weight of frame and fixtures only 32 lbs. Shipped knocked down unless ordered otherwise. If crated, an additional charge will be made

		,		
No. 1 Stone,	90-110 pounds,	each	 	\$9.75
No. 2 Stone,	70-80 pounds.	each	 	8.75
No. 3 Stone.	40-50 pounds.	each	 	8.00

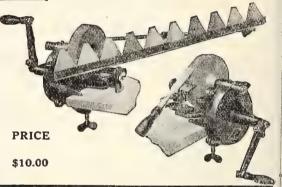
No. 82-C Sickle and Tool Grinder



simple, compact and serviceable serviceable
hand - power
sickle and
tool grinder
especially
suited to

No. 86 Sickle and Tool Grinder

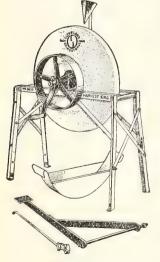
useful farm grinder for tools and sickle sharpening. Made especially to take care of all general grinding on the farm. This machine can be quickly attached to a mower wheel or bench.



SCYTHE STONES



					Each
Western	Red	End	l	 	.10c.
Quinnebo	g			 	.15c.
English	Roun	d		 	.25c.
Darby C	reek .			 	.20c.



Harvest King Power Grindstone

The frame is constructed of heavy angle steel strongly braced. It is equipped with praced. It is equipped with high-grade selected Grindstone 24-in. by 2-in., furnished with 12-in. pully with 2%-in. face, and heavy steel roller bearings, drip cup and hand cranks.

The frame is shipped folded complete, stone crated, to save freight. Weighs about 125 lbs.

Price, regular, which includes 24-in x 2-in. Stone, 12-in. x 2% in. Pulley, Hand Crank and Drip Cup \$13.50

EXTRAS

Trough .														\$1.75
Treadle,	P	ii	in	na	ın	Ł	а	1	ić	i				
Bearin	g						·			۰			٠	1.75

Cast Grindstone Fixtures with Shaft.

15-in., per set, 80c. 17-in., per set, 90c. 19-in., per set, \$1.00.

TOOL GRINDERS

Domestic Kitchen Grinder, with smooth Domestic Kitchen Grinder, with smooth stone for sharpening knives.....\$2.25

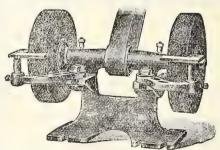
No. 24—It is equipped with a 4x1in. Grinding Wheel, and is intended for a Household Grinder. Weighs 6 lbs boxed. Price.......\$3.50

No. 25—It is equipped with a 5x1in. Grinding Wheel, and will be found a very handy tool for mechanics. Weighs 7 lbs. boxed. Price.......\$4.00

No. 26—It is equipped with a 6x1-in Granding wheel. Weighs 11 lbs. boxed. Price \$5.00

.\$5.00

No. 309-C POWER BENCH GRINDER



rinis grinder is constructed along the best mechani-cal lines. It can be bolted to any bench and its heavy desig) makes it the ideal grinder for power makes it the ideal grinder for power of any sort. It is equipped with two sharpening wheels of Light Dimo Grit, 7 inches in diameter and 1½ inches wide, one medium grit and the other coarse.

and two universally adjustable tool rests. Weight, boxed 32 pounds. PRICE \$15.00 No. 306 Power Bench Grinder.....\$8.00

WE CARRY A FULL LINE OF LOOSE STONES Prices: From 40 lbs. to 200 lbs., per lb., 5c. Under 40 lbs. per lb., 5½c. Over 200 lbs., per lb., 6c.

T. PERRELLECO SAGINAY: MICH CUPPER SASSIA CLEANER



THE NEW CLIPPER

Grain, Seed, and Bean Cleaner

These Cleaners are guaranteed o be first-class in every respect. They are built by competent and skilled workmen and nicely fin-shed in three coats of paint and rarnish.

we furnish the best outfit of creens ever sent out with a arm Mill. Our perforated zinc toreens are graduated in 64ths of an inch in both round and blong holes. Our woven wire creens are made of plated wire with the meshes uniform and rue to count. The zinc screens will not rust and our plated wire creens will last for years if properly cared for.

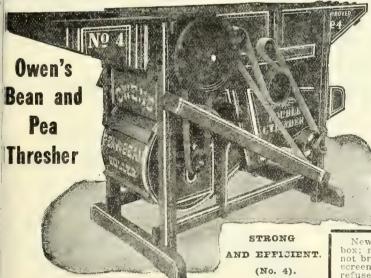
VERTICAL AIR BLAST. This is a feature that no other cleaning has and it makes possible some very difficult separations that can be made in no other way. For instance, when cleaning seed wheat, if the blast is properly regulated and the mill turned just fast enough, all the ight, shrunken kernels can be lown out or separated, leaving only the largest, heaviest, plumpest. We furnish the best outfit of

only the largest, heaviest, plumpest grain which is the choicest kind of seed. only the largest, heaviest, plumpest grain which is the choicest kind of seed. The same is true when cleaning seed oats—The Vertical Blast blows out all the light shrunken kernels and "pin oats" leaving heavyweight high grade seed. The same is true of Barley and Rye. If you use an air blast sufficiently strong on your seed grain, you can raise the weight from three to five pounds per bushel. That is, the grain will weight that much more per measured bushel, after being graded on the Clipper Cleaner, than it did before the light immature kernels were

removed.

The No. 2-B differs from the No. 1-B only in size and capacity. Both machines are equipped with a set of 12 screens for general farm use. The No. 2-B is larger.

No. 1-B 55.00 wer Attachment extra...

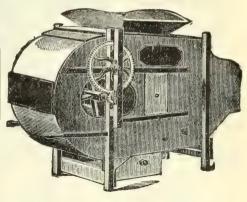


It will thresh all varieties of beans and peas directly from the vines as taken from the field, without splitting the grain, and at the same time shred the vines, the same as the larger size threshers. We wish to make one exception to the above, and that is in cow peas, where the vines grow very rank and heavy. You will readily see that, on account of its size, the No. 4 could not possibly be expected to handle these like one of our larger threshers, but where the vines do not grow too large and where care is exercised in feeding, it does very good work, indeed. We have shipped a great many of the No. 4 threshers to all parts of the South, and they are giving excellent satisfaction, especially with those who simply wish to save the seed and do not care for a large capacity. Capacity, 10 bushels per hour. One to three horse-power.

The No. 4 will also thresh buckwheat. Weight, 400 pounds.

The No. 4 will also thresh buckwheat. Weight, 400 pounds. Price, \$120.00. 16x20 Thresher \$225.00.

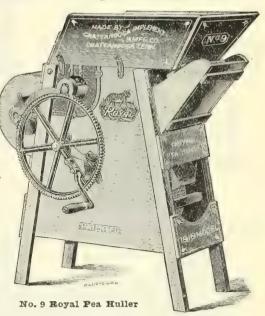
Baltimore Improved Grain Fan



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner. List Price, \$70.00.

Our Special Price, \$45.00. Sieves, List Price, each, \$3.00. Retail, \$2.00.

No. 9 Royal Pea Huller



New model No. 9, with heavy bearings, wooden frame and box; malleable iron cylinder and concave sections. Teeth do not break. Heavy fly-wheel and two cranks. Patent revolving screen, which insures absolutely clean peas and carries the refuse through a separate outlet. Reversible hopper to allow use of machine for cleaning wheat or other small grain. Cleans and threshes the peas thoroughly without breaking them. Shipping weight, 260 pounds. Can be furnished for operation by power by substituting a pulley and heavier shaft for one of the cranks at an additional net cost of \$2.50. Cow Peas intended for seed should be allowed to get more mature. These will unavoidably lose most of the leaves, but will still be good feed after the Peas are picked and threshed.

The ROYAL PEA HULLER will save a larger per cent. of all the Peas than any other method. The awnership of a Royal Pea Huller represents an outlay so small in comparison to the benefits, that no successful farmer will be without one.

Special and exclusive features to be had only with these machines are covered by patent, and cannot be had in any other make. Capacity, 8 to 15 bushels Dry Peas per hour. Price, \$60.00.





Cylinder Type Hand Cutter One Knife

No. 11½—"ONE-KNIFE."

The feeding rolls on this cutter are operated by means of cog wheels and sprockets. The feed is constant and uniform, and the cutter has large capacity. The feed rolls are equipped with tension springs; the cutter has large heavy flywheel, large crank, chilled shear bar and hardwood frame. Is Adjustable for Different Tengths of Cut. ent Lengths of Cut.

> OUR SPECIAL PRICE, \$20.00

2 Knife Ohio Cutter\$25.00 4 Knike Ohio Cutter 30.00

MARYLAND LEVER CUTTER

Strong, Cheap and Durable.



Retail

BALING TIES

Cross Heads



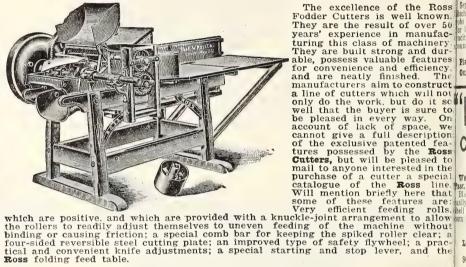
Measure around the bale and add three inches to get the proper

CROSS HEAD BALE TIES—9-ft. No. 14, \$3.25. 8½-ft., No. 15, \$2.70. 9-ft. No. 15, \$2.85. SINGLE LOOP BALE TIES—9-ft., No. 14, \$1.85; 9½-ft. No. 14, \$1.90; 10-ft., No. 14, \$2.05; 10½-ft., No. 14, \$2.15; 8½-ft., No.15, \$155; 9-ft. No. 15, \$1.65; 9½-ft., No. 15, \$1.70. A bundle contians 250 ties.

ANNEALED BALING WIRE—Nos. 11, 12, 13, 14, and 16 always on hand at lowest market prices on application.

Special prices in quantity to Threshermen and Balers.

Ross Standard Hay and Fodder Cutter



The excellence of the Ross Fodder Cutters is well known. They are the result of over 50 years' experience in manufacrears experience in manufacturing this class of machinery. They are built strong and durable, possess valuable features for convenience and efficiency, and are neatly finished. The manufacturers aim to appare manufacturers aim to construct

Ross folding feed table.

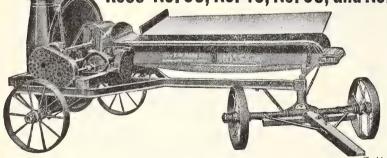
Capacity per Hour on 1-Inch Cut Power Weight
Knives Ensilage Dry Fodder Required Pounds
Inches Tons Tons H. P. Tons Inches

No. 111 4-11 3 to 4 2 to 3 1/2 1 to 1 ½ Subject to prior sale.

Price with Either Weight Cutter or Shredder Cylinder Retail \$70.00

Price of 12-Foot Angle and Straigh Carrier Retail Price on Application

Ross No. 30, No. 40, No. 50, and No. 60 Cutters and All Steel Blowers The knives on flywheel type of Ross Silo Filling



Machines with Blower have made a home for themselves with all their users. This is due to the fact that they possess the required strength and features to enable them to accomplish the and features to enable them to accomplish the work of filling silos in a way that brings comment from all. Realizing the fact that users of this class of goods expect more and more each year in the line of quality and quantity of work, they possess features fully described in the special realizable, which we will be pleased to mail namely: Four-sided reversible steel cutting plate. namely: Four-sided reversible steel cutting plate positive tension to the feeding rolls, special knife adjustment, self-aligning and adjustable mair shaft bearings and roller shaft bearings, extra bearings for main shaft, special balanced mair frame, etc.

Cutter with Traveling Feed Table and Blower, with 30-ft. Blower Pipe and Elbow. Pr. with Truck.

Retail. 262.50 277.50

Blower Pipe, Includ-ing Elbow, per Foot. Retail. \$.75 .85 .85.

Capacity. 38 sq. ins. 55 sq. ins. 72 sq. ins. 85 sq. ins. No. 30 No. 40 No. 50

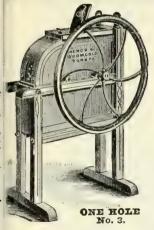
Throat

Capacity per Hour on 1-Inch Cut. Ensilage. 4 to 6 tons 6 to 8 tons 8 to 10 tons 12 to 18 tons

Power Required. 6 to 8 H. P. 6 to 8 H. P. 8 to 10 H. P. 12 to 14 H. P

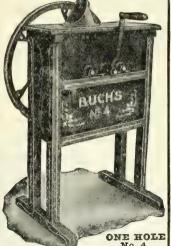
Weight With-out Truck. 800 lbs. 1250 lbs. 1450 lbs. 1800 lbs





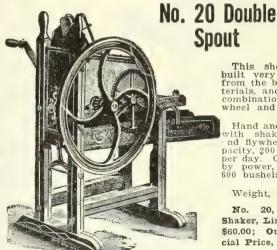
Separates corn and cob. Corn ischarged beneath Sheller, bbs at end. Easily adjusted or large or small ears. Caacity, 125 bushels a day. 130 ounds.

Plain, List Price.....\$25.00 Our Special Price..... 15.00



Screens corn; side delivery; light running; strong, steel shafts. Capacity, 125 bushels a day. 130 pounds.
Plain, List Price....\$25.00
Our Special Price.... \$25.00

THE BALTIMORE SHELLERS



This sheller is

built very strong from the best materials, and has a combination flywheel and pulley.

Hand and power. with shaker belt nd flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels.

Weight, 300 lbs.

No. 20, with Shaker, List Price. \$60.00; Our Special Price. \$36.00.

BLACK HAV CORN SHELLER

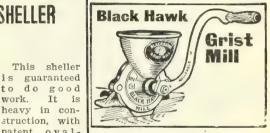


RED CHIEF CORN SHELLER



work. It is heavy in construction, with patent ovalshaped teeth. which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Ad-

justs itself to any size ear. List Price, each \$4.50. Our Special Price, ch, \$2.75. Weight, 12 pounds.



Black Hawk Feed and Grist Mill

Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. Weight, 17 pounds. Price\$3.75

No. 20 RED CHIEF GRINDING MILLS

COMBINED HAND AND POWER MILL.

No. 20-Power Mill for two-horse engine; right and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per day. Has no equal.

Our Special Price.....\$22.00

Corn Sheller Attachment, shells the corn and grinds at the same time, extra.

Our Special Price.....\$10.00

Table Meal Separator, makes fine table meal while grinding stock feed, extra.

Our Special Price.....\$7.00

All burrs are as hard as can be made, and All burrs are as hard as can be made, and all of our mills will grind in a satisfactory manner dry bone, oyster shells, old china, etc. New Feed Gauge enables the operator to grind fine without mill turning hard. New Burrs will grind fine and quick.



No. 20





RED CHIEF GRINDING MILLS

No. 1—For Small Poultry Rais-rs. Price......\$4.00

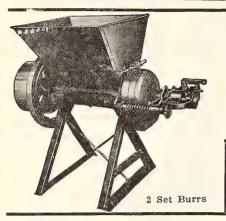
No. 2-Best Crank Mill on earth. Feed gauge to regulate grindin Price\$5.50

No. 10—With feed gauge, fly wheel and handsome stand to screw on table. Price.....\$9.50

No. 12—Best Hand Mill on Earth; bronze boxes, steel axle, large fly wheel. Price....\$16.00

No. 15-Power Mill for one-horse engine; strong, durable and easy running. **Price.** \$16.00





Nos. 106, 108, Stover Special Feed Grinding Mills

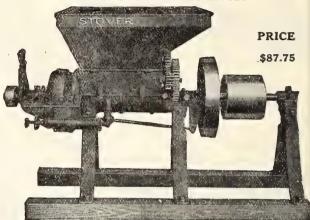
For Grinding Dry Ear Corn, Shelled Corn, and All of the Small Grains.
Capacity, from 3 to 6 bushels per hour per horse power, depending upon the grinding condition of the grain and the fineness of the feed.
These mills, while somewhat lighter in construction, are equipped with the same style of white iron or chilled steel grinding burrs used in the corresponding

			Speed,		Horse Power		
No.			R. P. M.	Pulley	Required	Weight	Price
106	<	6	in. 300 to 500	12x4 in.	2 to 5	200 lbs.	\$28.00
108		8	in. 400 to 600	12x6 in.	3 to 8	275 lbs.	38.25
31		$6\frac{1}{2}$	in. 200 to 750	12x4 in.	2 to 5	225 lbs	39.50

No. 42 MILL

with 8-in. Burrs \$52,25

NO. 45 STOVER FEED MILLS



Capacity, 3 to 6 bushels per hour per horse power, depending upon grinding condition of grain and fineness of feed.

This mill will grind more rapidly and produce a greater capacity per horse power applied than any mill of corresponding size on the market today.

This grinder has many outstanding features, the most prominent being cast iron breaker case, cast iron legs, feet regulator and feed plate, safety spring, safety lever, agitator one-piece cob breaker, Universal grinding burrs, pivoted rear burr, and especially designed ball bearing cage for taking up end thrust, and all vital parts made of white iron of sometimes called chilled steel.

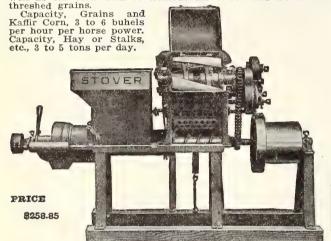
Regularly equipped with outboard bearing as illustrated above. Lack of space permits only a brief description. Our grinder catalog illustrating and describing all mills in detail, mailed to anyone interested.

SPECIFICATIONS

DI HOII LONIIOND	
Speed, R. P. M	80(
Horse power	0 25
Pulley	in.
Burrs, diameter	in
Weight555 por	inda

No. 68 Stover Combined Grinder

The No. 68 Stover General Purpose Grinding Mill will reduce to a fineness satisfactory for feeding all classes of live stock, poultry, etc., hay, straw, stalks, vines and roughage as well as ear corn with or without the shuck and all of the



SPECIFICATIONS

Power required8 to 20) H. P.
Speed	. P. M.
Weight	00 lbs.
Pulley, regular	
Burrs, diameter	8 in.

"Williams" Advance Burr Mill

The cut shows the general design of the "Williams" Advance Burr Mill Limited space prevents us from giving a full description, but we will gladly send a special circular giving full description and information.

The Mill Body is constructed in the most workmanlike manner, from the choicest selected forest timber, all well dried and very heavy.

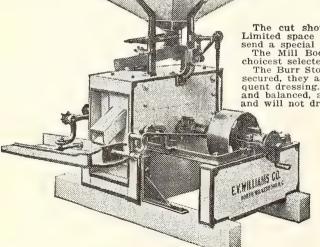
The Burr Stones used in these mills are the very best Burr stock that can be secured, they are well mated and will give great service without requiring frequent dressing. They are mounted on large steel spindles and perfectly true and balanced, and are so arranged that they cannot be set too close together and will not drift together when the grain runs out.

The grain hopper is large, with an improved feeding arrangement.

rangement.

The high speed cleaning fan, latest improved folding bolter the latest and most perfect burr adjustment, makes this the lightest running and nicest appearing mill on the market.

Size of Burrs,	Weight,	Speed,	Horsepower.	Capacity per Hour.	Size of Pulley.	Frice F. O. B.
No. 14"-B	700	900	3 to 6	4 to 8	10 x 5	\$ 70 50
No. 16"-B	800	800	5 to 7	6 to 10	12 x 6	81.60
No. 20"-B	900	750	6 to 12	8 to 14	12 x 6	98.50
No. 24"-B	1200	700	10 to 15	10 to 20	14 x 6	126.60
No. 30"-B	1750	550	12 to 25	14 to 30	16 x 8	168.78



"JUNIOR" DOUBLE CAGE HAND APPLE MILL



This is a small double cage mill of good capacity, and will work in a very satisfactory manner. It is made of hardwood and, having specially constructed grinders, gives good results. Capacity, 2 to 4 barrels of juice per day. Weight, 220 lbs.

Our Special Price.....\$30.00



WAGNERS FRUIT & LARD PRESS

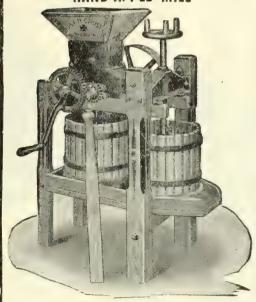
Our Price. .\$5.00 2-Quart 6.75 7.50 4-Quart 6-Quart Stuffing
Attachment 1.50

"Senior" Hand and Power Apple



They have adjustable Rollers and Feed Regulator and Double Crank. In these Mills the lower rollers are cast with alternate rims and grooves interlocking to draw in the Fruit, which is mashed between the smooth segments, thoroughly breaking all the apple cells so that juice is entirely extracted in press. Balance wheels are heavy and mill can be run by power. The mills are very strong. They are made of best material, nicely finished, and are easy to operate. Capacity, 6 to 12 barrels of juice per day. Our Special Price. \$52.50

"MEDIUM" DOUBLE CAGE HAND APPLE MILL



Is a good size for family use. It is built with iron beam and heavy gearing, and is perfectly adjustable for all sizes of apples. Capacity, 6 to 8 barrels of juice per day. Weight, 240 pounds.

Our Special Price\$35.00

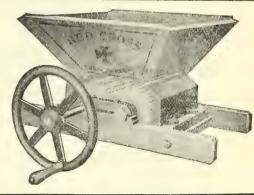
BALTIMORE SPECIAL APPLE AND BERRY MILL



Grape Crusher

No. 2. Hoosier Crusher .. \$9.00

No. 1 Red Cross Crusher ..15.00



BERRY PRESS

These presses are built heavy like the apple mills. The head block is heavy cast iron, giving it great strength. The frame is strong and rigid. The heavy screw wheel with long lever gives great power in pressing out the juice.

No. 1.....\$14.00... No. 2..... 18.50 No. 3..... 24.00

Light Berry Presses

No. 2 W No. 3 W 13.00

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

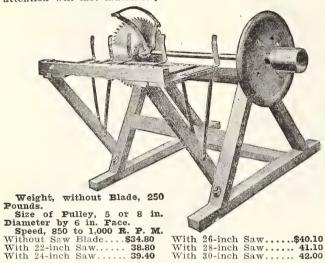
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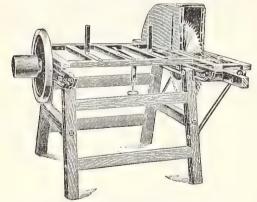
Price

TILTING TABLE SAW

The table is of the slat type, has five flat steel strips or braces bolted to the same and bent at right angles so as to form a rigid guard for the wood. This construction adds materially to the life of the table, as the wood to be sawed does not come in contact with wood part of the table at any part of the frame. When the wood is thrown on the table it rests on the steel strips and when the wood is pushed to ward the saw the steel braces carry the strain. The frames are strongly and carefully built and with ordinary care and attention will last indefinitely.

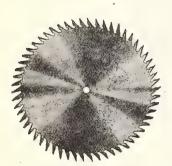


SLIDING TABLE SAW



Witho	ut Saw	Blade \$	45.65	With	26-inch	Saw	 \$50.75
With	22-inch	Saw			28-inch		
With	24-inch	Saw	49.95	With	30-inch	Saw	 52.55

GRITCO CIRCULAR SAW



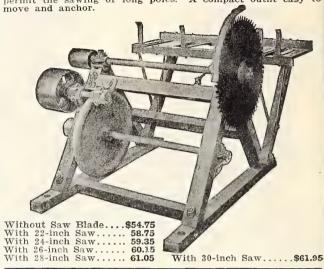
With 24-inch Saw.....

These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequaled. The prices given are for saws sharpened and set. All blades with 1%-inch hole.

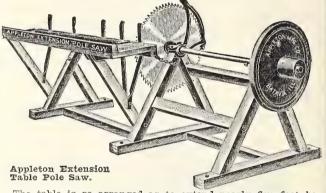
				-50	evam
22-inch,	No.	12	gauge	. 5	\$4.00
24-inch,	No.	11	gauge		4.60
26-inch,	No.	11	gauge		5.40
28-inch,	No.	10	gauge		6.50
30-inch,	No.	10	gauge		7.20

POLE SAW

The illustrated Pole Saw has the advantage of having the fly wheel underneath where it is out of the way and will permit the sawing of long poles. A compact outfit easy to



EXTENSION TABLE POLE SAWS



The table is so arranged as to extend nearly five feet beyond the saw blade. It makes a highly satisfactory combined pole and cord-wood saw, because the length and arrangement of the table is such as to enable the operator to handle long poles about as easily and rapidly as cord wood. To facilitate handling a roller is placed at one end of the table. Weight, 354 pounds. No. 3, Steel Frame. No. 4, Wood Frame.

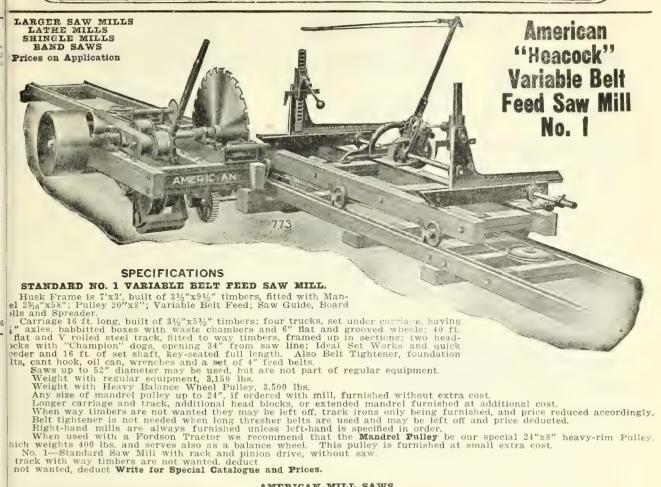
Steel and Wood Frame Same Piece. Without Saw \$35.80 With 24-inch Saw ... 40.80 With 26-inch Saw ... 41.10 With 28-inch Saw....\$42.10 With 30-inch Saw.... 43.00

PORTABLE SAW RIG

The under carriage is an ordinary farm truck with steel wheels heavy enough to carry our 6 H. P. engine. The channels are steel I-Beams securely bolted to the truck bolsters to which is attached our No. 56 tilting wood sawing table with self-aligning, self-adjusting bearings, that was specially designed by us for mounting on a portable rig of any description for either custom or individual work. The equipment includes plain pulley on the engine, circular saw, belt belt idler, pole, but no neckyoke or doubletrees.







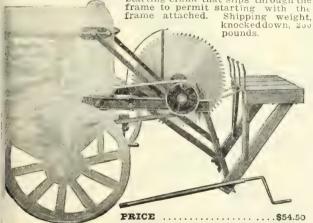
			_			AM	ERI	CAN	IV.	IILI	L S	AW	S								
-inch	Inserted	Tooth,	Our	Special	Price	 								 	 	 		 	 	 	
-111011	Inserted Inserted	T OOFH.	Our	Special	Frice.	 100								 	 	 		 	 	 	
-111011	Inserteu	Tootii,	Our	phecrar	Price	 									 	 	* * *	 	 	 	

QUICKLY ATTACHED

QUICKLY ATTACHED

The frame is carried on four castings attached to the oper and lower ends of the radiator by four bolts that run front and in back of the radiator. Thus, you attach the over Frame without disturbing one single bolt or nut on e Fordson, also without drilling any special holes or furshing any special equipment.

The frame is shipped knocked down with instructions for sembling with all of the equipment illustrated, and which cludes the frame, 30-inch saw, sufficient length of 5-inch bber belt, 8 x 6 inch pulley on saw mandrel, and special starting crank that slips through the frame to permit starting with the frame attached. Shipping weight, knockeddown, Zoo pounds.



SAW MANDRELS



No. 1 Saw Mandrel-made from finest coldrolled steel, 17/6" diameter, 49 in. long. Has Self-Aligning Bearings, lubricated with hard oilers. Furnished with machined flywheel 151/2" diameter,

weight 65 lbs., 6x6" pulley and is turned for saw with 1%" hole.

Comes complete with saw collars, nut and keys.

\$16.00

CANT HOOKS



PEAVIES

ı								
I	Cant Hooks,	No. 3181	3-2½ in.	x	4	ft.	Price	\$4.00
I	Cant Hooks,	No. 3181	$B = 2\frac{1}{2}$ in.	Х	41_{2}^{\prime}		Price	
Į	Peavies, No.	9-2% ir	n. x 5 ft.		Pric	se		5.00

ATKINS CELEBRATED SAWS



WOOD SAWS

No. 617—Wood brace frame; single rivet; painted red; plain tooth; breasted blade; 2½ inches wide. Our Special Price, \$1.10.

No. 523—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade, 2¼ inches wide. Our Special Price, \$1.30.

No. 923—Jumbo rod tinned; Tuttle tooth blade, breasted, 2¼ inches wide. Double brace, double riveted. Painted vermillion and varnished. Our Special Price, \$1.50.

Wood Saw Bucks, 75c.

NARROW AMERICAN	NARROW TUTTLE
ft.—Our Special Price\$2.60	
½ ft.—Our Special Price 2.50	
ft.—Our Special Price 3.10	
Special Price	s in Quantities.

Gritco Cross-Cut Saws, Narrow American.

TOWN TO THE THE TANK GRITCO CROSS-CUT SAWS, WIDE BACK, AMERICAN.

Wide Ame	erican Tooth, Silver Steel, 5, 5½ and 6 Feet. Gauge, 14x16.					
5 ft.—Our	Special Price\$4.05					
5½ ft.—Our	Special Price 4.50 Special Price 4.90					
6 ft.—Our	Special Price					
Tuttle Tooth, Cast Steel Gauge, 14x16.						
	Special Price\$4.25					
5 1/2 ft.—Our	Special Price \$4.25 Special Price 4.65 Special Price 5.05					

Special Prices in Quantities. Price of Cross-Cut Saws is Without Handle.



HAND SAWS.

No. 46—American straight back; plate on handle. Our Special Price, \$1.40 each.
No. 59—Sheffield Saw Works. Skew back; beech handle; pointshed edge; 7 to 9 points. Our Special Price, \$2.25 each.
No. 54—Silver Steel; beech handle; straight back; polished edge; 7 to 9 points. Our Special Price, \$3.25 each.
No. 53—Silver Steel; skew back; carved and polished apple handle, with Atkins' perfection handle. Our Special Price, \$3.85 each.

	OM	E MAN CRO AMERICAL					
3	feet				\$3		
3 1/6	feet				3		
3 3 ½ 4	feet				3		
_					_		
	PRUNING SA						
имми	annina manana mana	E C. ATKINS & CO. IND	MMMMMMMM	•	4		
201010		F-C-AINING & COUNTY	IANAPOLIS				
		PRUNING	SAWS				
	No. 3 Double			No. 1 Single			

16-inch......\$14.5 16-inch. 18-inch..... 20-inch.....

The Schick All Steel Baler



This baler is a device that is so low in initial cost that the material which it conserves pays for it in a short time, it bales all kinds of material, such as paper, scrap, pasteboard boxes, excelsior, cloth clippings, old rags, tobacco stems, tin and galvanized scarp in can factories, steel shavings in machine shops, etc.

The great and increasing demand for all kinds of waste material of every description has put you in a position to change this waste into cash.

This shows the top of the **SCHICK BALER.** Note the solid one-piece casting supporting the geared rack.

A pressure of three tons is obtained by means of the wheel and hand lever.

There are but five working parts. All made of crucible steel, case hardened, making it easy and simple to operate.

As waste paper accumulates it is emptied into the **Schick**; a turn of the wheel compresses it. When bale is compressed it is wired and ready to remove from the press.

\$70.00 No. 4—Open Top Schick All Steel Baler bales from 200 to 350 pounds....



Here is a tool twill cut grass ea than a shear. B like hair cutt Blades are forgsteel, warran Handle is mallea will not break. Price



STAR WINDMILLS AND TOWERS

TO. 2 FOR 8 AND 10-FOOT WIND-MILLS.

Bands 5 feet apart. Braces 10 feet apart. Prices:
t, Weight,
Lbs. leight,

30.....\$46.50 40..... 67.75 50.... 94.00

0 Poot



MODEL 12-STAR CALVANIZED STEEL BACK-CEARED WINDMILLS Size, Feet Stroke, Inches Weight, Lbs. Pri 848 425

4, 6, 8

\$48 50

MODEL 24-STAR CALVANIZED STEEL BACK-CEARED WINDMILLS

WITH TIMKEN ROLLER BEARING

STAR GALVANIZED STEEL SUBURBAN TOWERS

Star Suburban Towers come complete with anchor losts, plates and heavy teel supports for tank. Ower is of the same contruction as the regular rindmill towers, except the ortion below the tank and he anchor posts are made f heavier material on acount of supporting tank.

	Height of Tower,	Elevation of Tank.	Capacity of Cypress	Weight of Price Tower, with
No.	Feet	Feet	Tank, Bbls.	Lbs. Tank
T 4	40	20	21	1001\$200.00
T 5	45	25	21	1186 212.50
T 6	50	30	21	1344 225.75
T' 8	60	40	21	1774 260.00
T14	40	15	40	1126 240.00
T'16	50	25	40	1495 278.00

STANDARD STEEL SUBSTRUCTURES

0-foot Tower for 6x6 Tank...... 0-foot Tower for 6x6 Tank...... . . \$107.00 162 00 teel Platform and Girders.
Valkway and Pipe Hand Rail
butside Steel Tank Ladder.
nside Wood Ladder.
teel Top Girders, only. 21.00 59.00 4.85 2.85 For Price of Tank, See List Below.



ROU	ND-END	CALVA	NIZED	TANKS.
Width,	Height,	Length.	Capacit	y, Weight
Ht.	Frt	Fit	Gals	Lbs.

	Ft.	Ft.	Ft.	Gals.	Lbs.	Retail.
No.						
E 224	2	2	4	91	74	\$12.60
E 225	2	2	5	117	88	15.20
E 226	2	2	6	144	102	17.70
E2525	2 1/2	2	5	145	93	17.00
E2526	2 1/2	2	6	173	110	19.80
E 326	3	2	6	213	134	21.80
E2528	2 1/2	2	8	245	141	25.50
E 328	3	2	8	295	156	28.10
E3210	3	2	1.0	384	185	34.40
E 428	4	2	8	386	169	32.40
E4210	4	2	10	496	203	39.30

ROUND GALVANIZED TANKS.

Diam.,	Height,	Capacity,	Weight,	
Ft.	Ft.	Gals.	Lbs.	Retail.
3	2	91	69	\$12.30
4	2	166	97	15.80
4	3	254	115	20.40
4	4	338	145	03.80
4	5	423	168	29.60
4	6	508	191	34.40
5	4 .	548	181	C1.57
5	5	675	211	and because



Gulf Gypress Tanks With Round Hoops and Draw Lugs

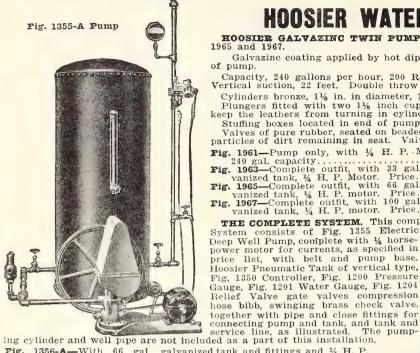
storage are made of carefully se-lected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting tanks from us you can rely upon high-grade ma-terial and workmanship.

Prices on Larger Tanks and Covers on request.

PRICE LIST.													
Length	Diameter			Price,	Price,								
of Stave,	of Bottom.	No. of	Capacity.	1 1/2 -inch	2-inch								
Feet.	Feet.	Hoops.	Gallons.	Cypress.	Cypress.								
3	3	3	110	\$ 20.30	\$ 24.50								
3	4	3	220	28.00	35.35								
4	4	4	283	35 35	43 75								
4	5	4	472	48.30	60.80								
5	5	5	598	59.50	74 55								
6	6	5	1002	77.35	97 30								
7	7	6	1701	110.25	137.90								
8	8	7	2646		172.55								







WATER SUPPLY SYSTEM

HOOSIER GALVAZINC TWIN PUMP, as is used on complete outfits, Fig. 1963 1965 and 1967.

Galvazine coating applied by hot dip process. Protects both outside and inside of pump.

Capacity, 240 gallons per hour, 200 R. P. M., Suction ¾inch, Discharge ½ inch. Vertical suction, 22 feet. Double throw crankshaft, two cylinders and crossheads. Cylinders bronze, 1¼ in. in diameter, 1¼ inch stroke. Plungers fitted with two 1¼ inch cup leathers, separated with center flange to keep the leathers from turning in cylinder.

Stuffing boxes located in end of pump opposite crank case. Valves of pure rubber, seated on beaded bronze rings, the shape of which prevents particles of dirt remaining in seat. Valve springs are of brass.

\$93.80 124.60

142.80

THE COMPLETE SYSTEM. This complete Hoosier System consists of Fig. 1355 Electric Deep Well Pump, complete with ¼ horse-power motor for currents, as specified in price list, with belt and pump base,

Hoosier Pneumatic Tank of vertical type, Fig. 1350 Controller, Fig. 1200 Pressure Relief Valve gate valves compression hose bibb, swinging brass check valve,

1356-A-With 66 gal, galvanized tank and fittings and ¼ H. P.

121.00

Fig. 1370—Pump only for engine power.

Anti-freezing attachment for any of the above pumps.

Cylinders—See page 179 54.70

\$134.80 5.85

Fig. 1963

Hoosier Automatic Pressure Controller

Fig. 1351-Automatic Pressure Controller is rig. 1331—Automatic Pressure Controller is used for automatically controlling electric driven power pumps. It can be adjusted for any pressure up to 75 pounds and for a variation of 20 pounds. For domestic purposes, it is best to have it cut in and out at 30 to 50 pounds, respectively.

OUR SPECIAL PRICE.....\$7.70

The Hoosier Horizontal Double Acting

A compact high-grade Power A compact high-gradedouble acting horizontal pump for pumping from shallow wells to pneumatic water supply systems. The whole design of this pump is with a view to compactness, strength and activate and activate and activate and activate and acting the strength acting the strength and acting the strength acting the strength and acting the strength acting t Pump curate operation.
The load is well equalized. Size of Pulley. No. 1....10x2½ No. 2....12x3 Tapped Inlet Outlet.

No. 1 1 1/4 1 in.

No. 2 1 1/5 1 1/4 in.

No. 4 2 1/2 2 1/5 in. 2½ in. Fig. 1325

Fig.		Cylinder.	Capacity.	Price.
	1		510 gal.	\$44.80
	2 4		850 gal. 2350 gal.	77.00 182.00
Hand Pu	mping attac	hment for	No. 1	3.00

HOOSIER GALVAZINK OILED PUMP

The HOOSIER GALVAZINK Oiled Pump may be had either with or without tank equipment. When supplied as a complete water service unit, it is so shipped that it is easily assembled assembled.

assembled.

If fresh water, direct from the life well, is desired, so specify when ordering, and fresh water attachment, including Hoosier Silent Check Valve will be supplied at a small additional above the lif

charge.

When using the cosier Galvazink led Pump on a Hoosier Galvazink Oiled Pump on a suction greater than 15 feet, we recom-mend the use of Hoosier Silent Check Valve placed vertically in the suction
line, as the use of
this check valve will effect econ-

omy in current consumption.

Fig. 1950, Hoosier Water
Service Galvazink Oiled Pump
includes motor, belt, controller

includes motor, belt, controller pump, and vacuum chamber without tank.

Fig. 1952, Hoosier Water Service Galvazink Oiled Pump consists of Fig. 1950 pump wacuum chamber, together with 18 in x 30 in. galvanized tank, capacity 33 gallons, base gate valve, relief valve, combined pressure and water gauges and necessary fittings for connecting pump and tank.

SPECIFICATIONS

	SPE	CIPICAT	TONS	
Fig.	Floor	Height	Weight	Price
	Space	220-8	Crated	
1950	13" x 20"	221/2"	113 lbs.	\$77.00
1952	20" x 32"	34"	252 lbs.	116.90





Hoosier Power **Working Heads**

Figure 1552, Center Pulley Drive, geared 6 to 1, tight and loose pulleys, underground dis-charge, and Fig. 1042 combi-nation air cylinder and air chamber, for Pneumatic Water Supply System ser-

ice.
Over-all measurements
-height 3 feet 4 inches;
length 2 feet 2 inches; width 1 foot 8 es; wid

inches. Fig. 1551 is Fig. 1552 with upground discharge.

Approximate Approximate Capacity—460 gallons per hour with 2¾-inch cylinder on 10-inch stroke at 30 strokes per minute, 150-foot maximum lift, or 70 pounds pressure; 1 H. P. required to operate.

uc. Dis. Price

Suc. Pulley 2-in. 2-in. \$58.75 16x3 16x3 3-in 64.00

Hoosier Horizontal **Double Acting** Hand Pump For Shallow Weils

FIG. 1248

Fig. 1248—Hoosier Hor zontal Hand Pump, double acting, for general purpose work or pneumatic water service, for use where the suction is not more than 18 or 20 feet. Pump is equipped with large air chamber and rack head, insuring ease of operation. It has 3x5" Brass Lined cylinder and a 3 to 5" adjustable stroke. The pump is tested to 100 pounds pressure. All valve caps, including suction cap, are on the outside and easily accessible. The body is detachable from the body of the pump and in case of breakage of the base it is unnecessary to purchase an entire new pump.

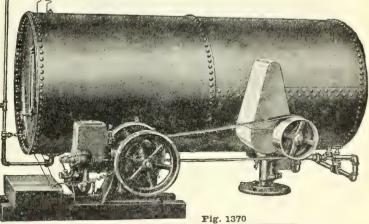
It is fitted with an intake in the pump and in case of the pump.

It is fitted with an intake air valve and it can pump both air and water at the same time.

Price of Pump......\$18.90

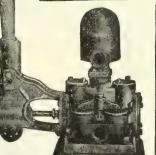
Hoosier Deep Well Outfit 1370A

The complete system consists of Fig. 1370 Deep Well Pump with floor base, Hoosier Pneumatic Tank of horizontal type, with wood supports, 1½ horsepower gasoline engine, with Webster Magneto equipment, 15 feet rubber belting, Fig. 1287 Circuit Breaker, Fig. 1200 Pressure Gauge, Fig. 1201 Water Gauge, Fig. 1204 Relief Valve, gate valves, compression hose bibb, swinging brass check valve, together with pipe and close fittings to connect pump and tank, and tank and service line, as illustrated. Pumping cylinder and well pipe are not included as a part of this installation.



Hoosier Shallow Well Outfit 1325A-With Fig. 1325 Pump

Fig.	Description	Capacity of Tank, Gallons	Weight	Price
1325-E 1326-E	Complete Hoosier System, as above described, with 30-inch by 8-foot Hoos- ier Pneumatic Tank With ½ H. P. Motor	295 295	1125 1030	\$253.75 273.00
1370-E	Complete Hoosier System, as above described, with 30-inch by 8-foot Hoos-	905	1150	0000 50
		295	1150	\$262.50



Arrow Pneumatic Tanks



Hoosier Tank Pump

Hoosier Double Acting Tank Pumps are strongbuilt, of very large capacity, and especialadapted for threshermen's use. The cylinder
carefully bored and polished. The cylinder has
5-in. stroke, the valves have brass valve
seats, and the valves are accessible through

hand-holes by removing the plugs. The suction and discharge have 2-in. openings with swivel connections. Furnished with suction conection for 2-in. pipe or 2-in. hose, and the discharge connection for 2-in. pipe or 1-in. hose.

As the pump heads are reversible, the handle can be attached to either end of the pump.

By opening the upper and lower drainage plug, water can be drawn off the pump to prevent freezing.

.....\$16.10

LIST OF PNEUMATIC TANKS. (Plain Tanks Without

ricings.)											
Diamete	r Length		Capacity	Price	Price						
in inches	s in fe et	Wt.	in gallons	Galvanized	Black						
*24	5	260	120	\$ 52.25	\$ 34.50						
*30	6	600	220	92.25	56.25						
30	10	850	365	132.00	80.30						
*36	6	750	315	114.25	68.75						
36	10	1075	525	161.00	97.50						
BALTIMORE TANKS											

	BAI	TIMORE	TANKS	
Diameter	Length	Capacity	Price	Price
in inches	in feet	gallons	Galvanized	Black
*24	5	120	\$ 47.00	\$ 33.00
*30	6	220	76.00	50.00
30	10	365	109.50	70.50
*36	6	315	97.00	62.50
36	10	525	134.50	86.00
Tanks mai	rked * thus	are verti	cal.	

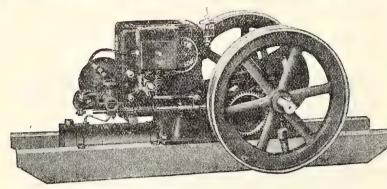
 33-Gallon Galvanized Tank
 \$18.20

 66-Gallon Galvanized Tank
 26.60

 100-Gallon Galvanized Tank
 36.00

ACCESSORIES FOR PNEUMATIC TANK Our Price. Water Gauge.... \$5.50

FULLER & JOHNSON ENGINE—N



To meet an increasing demand for Fuller & Johnson engines for use on the farm and in the nation' industries, we sell the new NC line in the 1½, 2, 3 ½

and 6 H. P.
Simplicity, economy and reliability are the key
notes of the new models. To further reduce th
already remarkably low cost of operation of Fulle
& Johnson engines, a new vaporizer has been de already remarkably low cost of operation of Fulle & Johnson engines, a new vaporizer has been de veloped. Years of research and experimentation if the Fuller & Johnson laboratories resulted in the spraying of the liquid gasoline into the current of in passing air in the exact proportions required During the process of compression it is so completely vaporized that practically perfect combustion takes place. tion takes place.

During the process of compression it is so completely vaporized that practically perfect combus the compression. Fuller & Johnson engines are note for their long life, twenty or even thirty years be ingounted in the produces the correct mixture of gasoline and air for either starting or running; also to the accuracy with which even the smallest part is made.

Easy to Start: This most desirable feature is made possible by the individual design of the Fuller & Johnson fuel variety of the produces the correct mixture of gasoline and air for either starting or running; also to the accuracy with the which even the smallest part is made.

Easy to Start: This most desirable feature is made possible by the individual design of the Fuller & Johnson fuel variety also good compression when the mixture is compressed and ignited by the fat, hot spark. This one feature alon warming the operater in the photograph above note the absence of complicated parts. Every unnecessary part is eliminated. This extreme simplicity makes it very easy to operate.

Well Balanced: Each fly-wheel is separately balanced before it is put on the shaft. Then as a final test, after the engine is completely assembled it is mounted on an iron plate with straight steel rollers where the slightest vibratio can be detected. The engine must satisfactorily pass this test. In a well balanced engine internal strain and friction is reduced to a minimum. This assures steadier, more even power and much longer life.

Rigidly Tested: After assembly, each engine is thoroughly run in on the test floor. It is then checked by the in spector for compression, ignition, valvesetting, bearing adjustment, etc. After passing this test it is then brake teste for power. Each Fuller & Johnson en

FULLER AND JOHNSON FARM PUMP ENGINE

This is the original Farm Pump This is the original farm Fump Engine—the acknowledge leader in the pumping field. The many thousands now in daily use all over the world testify to the merit and popularity of this remarkable pumping engine.

Here are some short, right-to-thepoint facts.

Attaches quickly and easily to pump standard. Simple, compactno complicated parts. Direct connected-no belts necessary. Comes complete in crate; no braces, special platforms or extras of any kind needed. Air cooled-won't freeze or over-heat.Weatherproof-runs perfectly winter and summer alike. Protected gears—lasts longer-safe to operate. Capacity 370 to 2,450 gallons per hour. Also runs washing machine, churn, separator, etc.

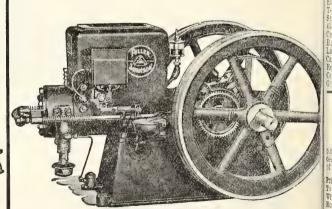
The vital question of every farm is its water supply.

With Batteries\$95.00

With Magneto 105.00

Regular Equipment: Consists of a muffler, cylinder of er, grease cups, starter crank, and instruction book all packe in one crate.

The Model NC engines are furnished wit Ignition: Wico magneto,



3½-6 H. P. Engine

$1\frac{1}{2}$	H.	P.	Engine		٠.	٠	 h .	 						 			.\$	70).	1.
2	н.	P.	Engine	٠.									 	 				80).	00000
3 1/2	H.	P.	Engine				 					 9	 	 				125	5.	30

H. P. Engine 200.



FIG 100

Artesian Well Cylinder No. 445

Brass Lined Artesian Well Cylinders

A galvanized steel cased brass lined artesian well cylinder for deep wells. It can be used inside of cased or open wells.

It is fitted with bronze ball tubular well valves.



and durable; will last indefiniately; the price is so small and the re-sults so effective that several jobs

will more than pay for it.

Keep your water pure and healthful;
clean the well often with a Bestway. \$15.00

GOULD'S UNIVERSAL HOUSE FORCE PUMP



N

The Universal House Force Pump is an easy work-ing, compact and is an easy working, compact and substantial pump. It is well adapted to house pumping, furnishing water either at the spout or through opening to storage tank. Can be used outdoors over wells and cisterns. Pump should not be and cisterns. Pump should not be placed over 22 feet above the water. Has 2½-inch cylin-der and 4-inch stroke. Tapped for 1¼-inch pipe.



	Fi	g. 116	69				Fig.	1168	
70.	2, 2,	Fig.	1168—With 1169—With	Plain Cock	Spout	 		\$7.5	0

BRASS VALVES







	-					
	1/2	in. 3/4	in.	1 in.	11/4 in.	11/2 in.
Globe and Angle	Valves\$	1.35 \$	1.65	\$2.40	\$3.35	\$4.65
Gate Valves		1.60	1.95	2.60	3.50	4.75
Swing Check Va	lves	1.50	1.70	2.10	2.75	3.60
Lever Handle S	top	.90	1.65	2.50		
Stop and Waste		1.00	1.70	2.60		
Compression Bi			1.50	2.65		
" Hos			1.95	2.85		
Galv. Foot Valv	es				1.25	
Tron Body Foot	Value				1 75	

GALVANIZEI	PIPE	FITTI	NGS.			GALVANIZED NIPPLES.
1/2	3/4	1	1 1/4	1 1/2	2	½ x1 or 1½\$0.06
Elbows \$.12			\$.36	\$.44	\$.76 1.02	$\frac{1}{2}$ x2, $\frac{2}{2}$, $\frac{1}{2}$, $\frac{3}{2}$
Street Elbows			.32	.44	.72	3/4 x1 3/8 or 2
45-Degree Elbows12	.18	.20	.30	.40	.68	$\frac{3}{4}$ x2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 4
Cross		.33	.56	.70	1.18	1x1½ or 2
Bushings		.12	.13	.15	.20	$1x2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4
Lock Nuts		.06	.10	.12	.18	1½ x1% or 2½
Reducers		.14	.20	.30	.50	$1\frac{1}{4}$ x3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$
Couplings		.16	.28	.34	.60	$1\frac{1}{2} \times 1\frac{3}{4}$ or $2\frac{1}{2}$
Galv. Unions	.42	.52	.74	.94	1.42	$1\frac{1}{2}$ x3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$

Additional for Fitting Pumps

We give below a table of the additional charge for fitting, and the amount stated in table has to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod and a strainer for valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

1 . 1	Prices Subject To Change Without Notice Depth of Well.	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	With 2-in. Pipe for 4-in. Cylinder Pumps.	With 2-in. Pipe fitted with 1 ½-in. Wood Rod.	We Use an Extra Good Foot Valve Dept., of Well,	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps.	With 2-in. Pipe for 4-in. Cylinder Pumps.	With 2-in. Pipe fitted with 1 1/2-in. Wood Rod.
.d	10 feet. 12 feet. 14 feet. 16 feet. 18 fee ² . 20 feet. 22 feet. 24 feet.	4.00 4.40 4.85 5.30 5.75 6.20	\$5.45 6.10 6.85 7.55 8.25 9.00 9.65 11.00	\$14.00	32 feet. 34 feet. 36 feet. 38 feet. 40 feet. 42 feet. 44 feet. 46 feet.	\$9.50 10.00 10.60 11.10 11.70 12.25 12.75	\$14.30 15.10 15.95 17.55 18.30 19.20 20.00 20.80 21.65	\$18.50 19.60 20.75 22.65 23.70 24.80 26.00 27.10
D.	26 feet	. 8.3 6	11.85 12.65 13.50	15.15 16.25 17.40	48 feet	. 14.40	22.40 .40	29.30

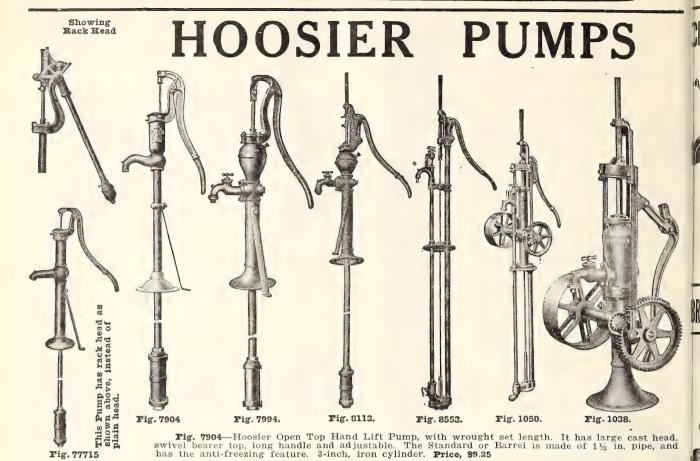


Fig. 77715.—Hoosier Open Top Hand Lift Pump with wrought set length. The swivel bearer top permits of the handle being set in any direction. The standard is tapped for pipe immediately below spout, and with the usual drip hole in the set length pipe just above the cylinder, makes the pump anti-freezing. A substantial and serviceable pump for open and driven wells not exceeding 30 feet in depth. 3 inch Brass Lined Cylinder. Price, \$12.25.

Fig. 7994.—Hoosier Hand Force Pump, wrought set length, anti-freezing, has swivel bearer top, polished steel piston rod, brass stuffing box, compression cock spout and back inlet. Standard is tapped for pipe just below spout, and with the usual drip hole directly above cylinder makes the pump anti-freezing. Fitted with 3 inch brass lined cylinder. Price, \$15.25.

Fig. 7995.—Same pump as Fig. 7794, with the exception that it is equipped with Hoosier Hand Rack Head instead of Plain Head. Price, \$17.25.

Fig. 8113.—Hoosier Windmill Force Pump, wrought set length, anti-freezing; has detachable polished piston rod, prass stuffing box, swivel bearer top, back outlet and detachable compression cock spout. The bearer top has removable guide bushing to prevent pump rod wearing directly on bearer guide. 2½ inch Brass Lined Cylinder, 6 inch stroke, weighs 81 pounds. Price. \$17.25.

Fig. 8553.—Hoosier Windmill Underground Force Pump, double acting, with wrought set length; anti-freezing. The rump has brass upper cylinder, positive three-way cock with union connection. Has adjustable platform base, fitted with 1 inch goose neck spout, and 1 inch three-way discharge. By removing upper cylinder and cap, the plunger valve can be withdrawn without disturbing the pump. Suitable for well from 25 to 125 feet in depth. Without Cylinder, Price, \$16.75

Fig. 1050.—Hoosier Combination Set Length Pump and Jack. For hand, windmill or belt power. For shallow or deep wells. In this pump you get a true alignment of the jack and pump, with no side strain or uneven wear on the parts. Has cast gears and strong pitmans. Tight and loose pulleys. By removing upper cylinder and cap the plunger vylve can be withdrawn without disturbing the pump. Can be used with 1½, 1½, 2, 2½ or 3 inch pipe. Price, \$46.75

Fig. 1033.—Hoosier Combination Pump Standard and Jack. Back geared 5 to 1, is designed to be operated by hand, wind-mill or belt power, for shallow or deep wells. This combined pump and jack is compact, strong and easy to install. Built in two sections, between which is a detachable flange, the upper section being the large air chamber with flanged top to which is bolted the flange bearer, making a firm connection; the lower section or barrel and main frame of the jack are of one-piece construction. This gives a true and permanent alignment of the jack and pump. Equipped with cast gears. The pinion shaft is extra long. Pitmans are made of heavy angle steel. The pitmans, gears, pinions and all wearing parts have told the flange box; compression cock spout with hose connection and back outlet. The jack has sufficient clearance above floor to admit of pulley being used as large as 30 inches. Suitable for wells from 25 to 200 feet. Weighs 190 pounds. Price, \$37.00. Price, \$37.00.

Fig. 8584.—Hoosier Easy-Fix Windmill Force Pump. Single Acting, with detachable cast standard, for heavy service. Has positive Three Way discharge and brass hand wheel screw for regulating the three way distributing valve. Underground discharge elbow as union connection, Brass Stuffing Box and Brass Covered Piston Rod, fitted with 1½ inch pipe air

The stuffing box is set in extra cap or flange which screws into the bottom casting. By removing stuffing box cap the plunger may be withdrawn without disconnecting the pump. Bearer is provided with removable pump rod guide bushing to prevent wear directly on the bearer guide.

The bottom flange is interchangeable for the size cylinder or pipe to be used. Price of pump without cylinder, \$21.75.

Artesian Well Cylinders—See Page 190

Mg. 2051/4

GRIFFITH @ TURNER CO



LOSED TOP PITCHER SPOUT PUMP



No 2-Diameter of Cylinder 3 in.: Suction, 11/4 in. Polished Iron Cylinder. Retail, \$2.50.

No. 3-Diameter of Cylinder. 31/2 in.: Suction, 11/4 in. Polished Iron Cylinder. Retail, \$2.75.

For 1%-in. Couplings add 15c.

PITCHER PUMP LEATHERS.

No. 2-Valve and flat Plunger Leathers, each, 16c.

No. 3-Valve and flat Plunger Leathers, each, 20c.

Nn 2-3-inch Leather Cups 19c.

No. 3-31/2-inch Leather Cups.

RASS JACKET DRIVE WELL POINTS



		N	o. 60 Gauge,	Retail
	Diameter		List Price,	Price
No.	of Pipe.	Length.	Per Doz.	Each.
90	11/4	24 in.	\$36.00	\$1.70
94	11/4	30 in.	46.00	2.15
98	11/2	36 in.	56.00	2.60
102	11/4	48 in.	76.00	3.55
136	11/2	24 in.	48.00	2.25
140	11/2	30 in.	60.00	2.80
144	11/2	36 in.	72.00	3.35
148	11/2	48 in.	96.00	4.45
		-	1	

Malleable Drive Caps, Hexagon-shaped,



IX L CURB.



GEM CURB.

IXI GALVANIZED STEEL

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole, which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb\$	
Gem Curb	
Tubing, per foot	
Coupling	.50
Rubber Buckets	.10
Iron Platform	9.00
Chain, per lb	.12

DIRECTIONS FOR FITTING UP CHAIN PUMPS

Use one foot more tubing than depth of well.

Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.

Rubber buckets should be placed 6 or 7 feet apart.

4. See that tubing is held secure-by tubing brace at bottom of curb.

No. 30 STAR WATER FLEVATOR AND PURIFIER

Similar to the No. 2 Water Elevator, except that the buckets are slightly smaller, and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, it is considered by some better for deep wells.

Price:—Elevator and 25-foot chain and japanned bottom wheel for 10-foot cistern, \$13.50. Extra chain, per foot, 25c.

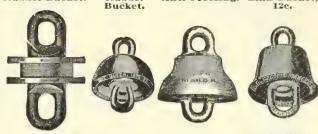
E. 7. BUCKET PUMP OR WATER FLEVATOR

The strongest bucket pump built. It is made of the best No. 24 galvanized steel, painted two coats best gray paint, and varnished. It has roller bearings, and they make the pump work easier, wear longer and run practically noiseless.

It has steel top and bottom bands. The buckets are made from the best galvanized steel, roll locked seams throughout.

Fixtures are put on the pump complete, avoiding all trouble in fitting.

Victor Crosby Swivel Anti-Freezing. Link Bucket, 12c. I X L Rubber Bucket. The Queen Bubber



Price, 10c.

Price, 10c.

Price. 10c.

Croshy Plain.

PUMP LEATHERS

Our pump leathers are cut from the best grade of selected Oak Tan leather. We offer only such leathers as we can recommend as being absolutely high grade.



Crimped.



Suction Valve Leather.

CRIMPED PLUNGER OR CUP LEATHERS

Each	Each	Each
1 inch\$0.08	$2\frac{1}{2}$ inch\$0.15	4 inch \$0.35
114 inch08	2^{3}_{4} inch	414 inch38
11 ₂ inch10	3 inch19	4^{1} 2 inch 10
134 inch10	31/4 inch22	4¾ inch45
2 inch11	$3\frac{1}{2}$ inch	5 inch50
21/ inch .12	33/ inch	

PLUNGER AND LOWER VALVE LEATHERS AND RING PACKING

Outside	Cylinder	Each		Cylinder	Each
Diam. 2 inch	Diam. 1% inch	\$0.10	Diam. 3½ inch	Diam.	\$0.16
2½ inch	13/4 inch	.10	3¾ inch	3¼ inch	.17
2½ inch	2 inch	.11	4 inch	3½ inch	.20
2¾ inch 3 inch	2¼ inch 2½ inch	.12	4½ inch 5 inch	3¾ inch 4 inch	.25
3¼ inch	234 inch	.15	0 21104	2 21.024	

PUMP CYLINDERS

	Iron Our Price.	Brass Lined. Our Price.	Brass. Our Price.
2½x12		\$ 4.90	\$ 5.55
2½x16		5.65	6.30
3x10			
3x12		5.30	6.25
3x16		6.15	6.90
3½x10	3.00		
3½x12		6.25	7.00
$3\frac{1}{2}$ x16		7.35	9.50
4x12		8.50	10.00
4x16		9.75	11.25

2½ and 3-in. cylinders take 1½-in. pipe; 3½-in. cylinders take. 1½-in. pipe; 4-in. cylinders take 2-in. pipe.

Baltimore Wood Pumps PRICES OF PUMPS FITTED COMPLETE. With and Without Porcelain Cylinder.

Depth of Well.	6x6 Unlined. Price.	6x6 Lined.	7x7 Lined Price.
10 feet	\$11.50	\$14.10	\$16.30
12 feet	12.10	14.70	16.95
14 feet		15.35	17.60
16 feet		15.95	18.20
18 feet	15.00	17.55	19.80
20 feet	15.60	18.15	20.40
23 feet		19.55	22.05
25 feet		20.45	23.20
28 feet		22.45	24.70
30 feet		23.95	27.45
33 feet		26.00	29.65
35 feet		29.00	32.90
40 feet	1 1	32.70	36.80
45 feet		37.00	41.40
50 feet	1	39.75	44.40

Baltimore Wood Pumps

NOT FITTED.
"No. 0."—STOCK PUMPS. 7x7 Inches, 4-inch Bore. Porc. Lined.

	Price.
feet long	\$12.75
feet long	13.75
leet long	14.75
feet long	16.75
feet long, extension cylinder	17.25
feet long, reamed for 6x6 extension nine	27120
unlined	10.50
	feet long

"No. 1"--The Favorite House Pumps

				OXO	121.,	3 1/2 - 111.	. Bore.	P(orc. Lineo
									Price.
G	feet 1	ung.							\$10.50
7	feet 1	ong.							11.25
8	feet	long							12.00
10	feet	long							14.00
12	feet	long							15.50
6	feet 1	ong.	ream	ed f	or 6	x6 exte	nsion p	ine.	20.00
							The second	100,	9 E0

Pump For Drive Wells
To Fit 1¼, 1½-inch Iron Pipe,
Special No. 1 House, 5 feet wood, Porcelain-lined
Cylinder, entire length 6 feet.
PRICE.

	Tubing and Miscella		Retail Price.
	4x4, 12 feet long and under, per	foot	\$0.30
	4x4, over 12 feet, per foot		32
	6x6 Extension Tubing, per foot.		75
	celain Lined, 3 feet long		
Cylinder Block, Por	celain Lined, 4 feet long		5.20
Cylinder Block, Pot	celain Lined, 5 feet long		6.00
Cylinder Block, Pos	celain Lined, 6 feet long		6.50
Cylinder Block, Por	celain Lined, 7 feet long		7.60
Cylinder Block, Po:	celain Lined, 8 feet long		8.40

Cylinder Block, Porc Cylinder Block, Porc Cylinder Block, Porc Cylinder Block, Porc Cylinder Block, Porcelain Lined, 8 feet long 8.40 6x6 Couplings for 4x4 Tubing 90 Buckets, 5-in, each, No. 00, Price \$1.50; 4-in, each, No. 0 1.25 Buckets, 3½-in, No. 1, each, Frice, \$1.00; 3-in, No. 2, each 80 Mandle, any size, each, Price, 40c.; Handle Links or Knuckles 40 Extra Iron Spout, with loose collar.

Extra Wood Spouts, each, Frice 25c.; Extra Spout Braces, each...... .40 Extra Bands, each.

Extra Bars or Brackets, Nos. 35 and 36, pair.

1-in. Rod Couplings, pair.

Plunger Rod, per foot. -50

GALVANIZED PUMP RODS AND COUPLINGS
%-inch Round Galvanized Pump Rod
20-foot lengths, not threaded, per

Threaded with coupling, add 1c. per foot; cut lengths add 3c.

Galvanized Pump Rod Couplings for % or 7-16 in. rod. 10c. each.



OCTAGON WOOD PUMP RODS.

Wood Pump Rod for artesian wells is made of selected material and fitted with galvanized forged couplings.

Size Size of Artesian Well Cylinder 1% in. 12½ in. Per Ft.

The above prices are for rod in standard lengths or from 16 to 20 feet, couplings included.

WOOD PUMP ROD.



HOOSIER PUMP JACK

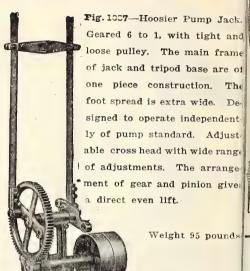


Fig. 1037. Pump Jack Price, \$18.05.

HOOSIER PUMP JACK

Fig. 1031.

Figure 1031 - Hoosier Pump Jack, with tight and loose pulleys for gasoline engine or electric motor, with motor speed reduced. The drive shaft may be driven 200 R. P. M.; as a rule, however, we recommend 170 R. P. M., or about 34 strokes per minute.

The pitmans are made of hard wood, and with their wide range or adjustment the jack can be attached to a windmillhead pump without disturbing the pump or pipe connections.

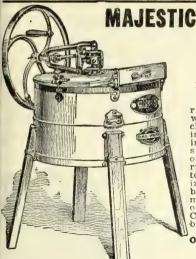
This jack can be used on the wall, floor or ceil-

Will operate a 3-inch cylinder, 125 foot lift on 8-inch stroke.

. **\$9.7**5 Price







ROTARY WASHER

ELECTRIC WELDED WIRE HOOPS.

VIRGINIA WHITE CEDAR TUB. ROLLER BEARINGS.

This is the lightest-running and easiest-working Washing Ma-chine made. Foller bear-ings; no friction. Works in both directions. Very in both directions. Very simple; nothing to get out of order. Nicely corrugated on sides and bottom. Hoops are galvanized wire and are welded by electricity; these are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sulk in greeves. being sunk in grooves.

OUR SPECIAL PRICE

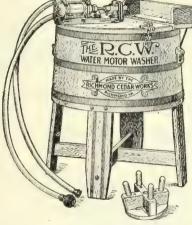
\$13.50.

THE R. C. W. WATER MOTOR WASHER

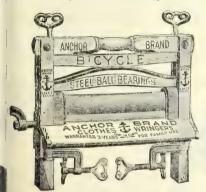
THE R. C. W. WATER OTOR WASHER is MOTOR WASHER is equipped with the Horozontal, Piston Type of Water Motor, some users prefer this type of motor, which is a very good one.

The tub is made from first-grade white cedar, which is the best material obtainable for this nurnose MOTOR

terial obtainable for this purpose. The construction of this machine is the best, and with proper care should last many years. and give the very best service. PRICE \$21.50



BICYCLE WRINGER



This Wood Frame Wringer is warranted for three years for family use. Has Galvanized Metal Bearings, Flat Steel Spring, easily adjusted with thumb screws for light and heavy work.



Majestic Electric **Power Washer**

The Tub of the MAJESTIC POWER Washer is made of selected Virginia White Cedar,—the best known wood for making Washing Machines. No danger of copper stains—and the tub is staunch, and specially designed to give real service over a period of years. Virginia White Cedar is a non-conductor of electrons. Cedar is a non-conductor of electricity

tricity.

The powerful ¼ H. P. Motor, belted to the well-balanced fly wheel drives the mechanism noise-lessly, and operates the Washer and Wringer with power to spare.

The specially designed, aluminum dolly agitates the suds and water, with sufficent force and speed to wash the clothes spotlessly clean in a few minutes. The entire mechanism, including the Angle Iron Stand, is designed and co-ordinated so as to make an attractive, powerful and efficient household necessity, and priced within the reach of the medium buyer.

The MAJESTIC is built to last

medium buver.

Now the Wringer comes into play. This is arranged to lock in any position desired, by a simple but effective device, and this aluminum wringer, with 5-year rolls, is a gem. This is arranged to \$62.50

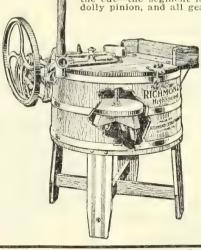
MANIESTIC

Richmond Highspeed Washing Machine The mechanical principle of this machine is positive in its action, and as you will see from the cut—the segment lever directly drives the dolly pinion, and all gears are incased in acci-

dent-proof covers, re-ducing danger to minimum.

We use cut gears on this machine, and a heavy fly wheel hung parallel with a heavy fly wheel hung parallel with the hinge line, so that the lid can be raised easily, while the mechanism does not get out of gear. You will note the segment lever has a piston type head, ending in a ball which travel; in the machined raceway, so arranged as to produce the reverse action of the dolly.





DOMESTIC WRINGER

Steel Spiral Springs, adjusted with thumb nuts for heavy or light work. The Cog Wheels on rollers prevents strain.
No. 22 Domestic,
Rolls 10x1 ¾ in.
Price\$5.50. No. 23 Domestic, Rolls 11x1% in. BICYCLE Price \$5.85. WRINGER

This wringer is constructed on the general principal of the Domestic Steel Frame Wringer, but has ball bearings. No. 740 Bicycle Rolls, 10x1% in Price...\$6.60 No. 741 Bicycle Rolls, 11x1% in Price... 7.00 Wringer Rolls, as Extras 10 in. Price...\$2.15 11 in., \$2.25 12 in., \$2.55.



BOSS" WASHING MACHINE

When the top is down and the "BOSS" is operated, the two rub-boards oscillate in opposite directions twice to every revolution of the crank, or 180 times to every turn of the wheel—90 forward and backward strokes every minute. It is this quick double action, and the pressure to the upper rub-board that produces the action similar to the rubbing and squeezing process of washing by the hand method. The clothes, being placed between the two rub-boards, are rubbed and squeezed, rubbed and squeezed, many pieces at a time.

Made in three sizes—

Our The

No. 1—Small Family 1 No. 2—Medium Family 1 No 5—Large Family or Hotel 1	0 Shirts 100	ight Special Price \$14.75 \$14.75 \$16.00 \$17.75
---	--------------	--

BANNER CEARLESS MOTOR

FOR CITY WATER POWER—Guaranteed for any pres-sure over 20 pounds.



Motor is constructed on the turbine principle of direct action—no gears or racks—only two self-lubricating bearings—only two self-lubricating bearings—only two well-protected and practically indestructible springs—heavy brass cylinder—and parts perfectly machined—perforated metal screen before intake port to prevent anything getting into the cylinder. Consumes less water than most washer motors, and will operate on very low pressure. Dasher post adjusts through top of motor—no projection below dasher. dasher

Motor is constructed on the turbine

dasher.
Furnished with high-grade intake and exhaust hose. Large cypress tub—natural finish—with all improved features. Capacity 8 shirts. Shipping Special Price............\$16.00 Our Special Price.

CINCY HIGH SPEED

FOR HAND OR MOTOR

FOR HAND OR MOTOR

Is operated by lever with high-speed flywheel geared to make 300 revolutions per minute—this terrific momentum creating sufficient power to practically run the washer without exerting the operator. The flywheel is grooved so a belt may be used on it, making this a hand and power washer in one. Machine can be directly belted to an engine or line shaft and can be opened or closed without shutting off the power or throwing off the belt. Large cypress tub—natural finish and all improved features.

Capacity, 8 shirts. Shipping weight, 90 lbs. Belt Pulleys, extra, \$3.50. OUR SPECIAL PRICE......\$18.25

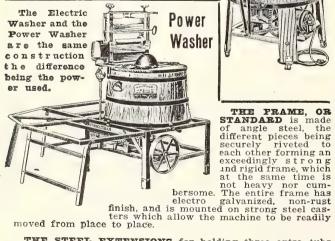


Happy Day Electric Washer

IN CONSTRUCTION AND FINISH this machine is unexcelled. It is very simple and every part of the mechanism is not only carefully fitted, but of great strength. With proper care the "Happy Day" Electric Home Laundry Machine will last for many years

No. 44-ELECTRIC WASHER....\$68.75

No. 43-Happ Day Engine Power



THE FRAME, OR STANDARD is made of angle steel, the different pieces being securely riveted to

THE STEEL EXTENSIONS for holding three extra tubs are hinged to the sides of frame, and provide substantial supports for the tubs.

No. 34-PRICE, \$85.00. Without Extension Table, \$3.00 Less.

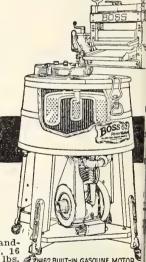
BOSS 62

This Boss "62" model was designed to give dependable and economical power washer service to the many country homes not supplied with electric power. It carries its power with it, making it possible for every home to enjoy power washer benefits.

The AEROWING is the secret of the wonderfully fast and clean washing obtained with the "62" Washer. The polished aluminum wings, with their perforations, produce a ceansing action that can hardly be described. Iinens are washed snowy white and the dirtiest clothes come out immaculately clean in a remarkably short time.

The Boss "62" is made in standard family size only. Capacity, 16 gallons; shipping weight, 260 lbs. The Bosoune Motor

.....\$130.00



STANDARD PERFECTI

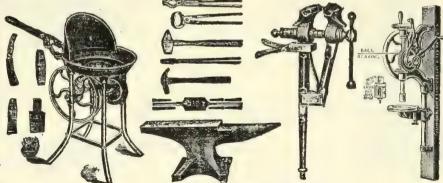
An excellent moderate-pr washer, constructed on the r bing-suction principle-with justable cylinder above-rem able rubboard below. Made cypress; natural finish. Ga nized castings and hardwood

No. 4-Medium size.....\$ No. 6—Large size.....



G. & T. Co.'s Farmers Handy Outfit of Blacksmith's Tools

Consists of the following: 1 100-LB. RAGLE STEEL PACE ANVIL. 1 35-LB. WROUGHT IRON SOLID BOX BLACK-MITH'S VISE, 1 (No. 102) CO-LB. OUBLE GEARED SELF-FEED HAND POST DRILL; 1 (No. 85) PORTABLE FORGE, 33" high, 22" hearth, 9 1/2" fan. Fireplace separate from hearth, which saves breakage in expansion and shrinksaves breakage in expansion and shrinkige, heats 2" diameter iron to welding teat; one set of stocks and dies to cut 1/4 to 1/2", 1 %" hot cutter, 1 %" cold cutter, 1 hardie, 1 2-lb. blacksmith and hammer, 1 farrier's hammer, 1 20 straight lip tongs, 1 20" bolt tongs, 1 1/4" pincers and 1 IXL farrier's knife.



PECIAL PRICE ON COMPLETE OUT-FIT AS DESCRIBED, \$84.00.

l		STOCKS AND DIES.	
ŀ	Vo.	. 1B—Cuts ¼"—20; 5-16"—18; ¾"—16; 7-16"—14; ½"—	13;
ă	r	ight hand; 5 taps and 5 sets dies. Each	.50
П		BLACKSMITH'S HARDIES.	
ŀ	o.	18—Shank, %-inch. Each	.75
		BLACKSMITH'S HOT CHISELS.	
ŀ	o.	6—Each	.85
и		BLACKSMITH'S COLD CHISELS.	
3	o.	5—Each	.85
2			



The Champion Easy Screw Plates



No. 1 Plate Complete in box. Length of stock, 18 inches. Cutting ¼, 5-16, %, 7-16 and ½ inch. Standard threads. Weight, 12 lbs. Price, \$12.50.

No. 35—Width of Jaw, 4 inches. Each
FARRIER'S KNIVES. Each 1.00 BLACKSMITH'S TONGS. 95 Straight Lip, 20 inches. Each .95 Round Jaw or Bolt, 20 inches. Each 1.25
Each 1.00 BLACKSMITH'S TONGS. Straight Lip, 20 inches. Each95 Round Jaw or Bolt, 20 inches. Each. 1.25
BLACKSMITH'S TONGS. .95 Straight Lip, 20 inches. Each. .95 Round Jaw or Bolt, 20 inches. Each. 1.25
Straight Lip, 20 inches. Each
Round Jaw or Bolt, 20 inches. Each
BLACKSMITH'S PINCERS.
14 inches. Each
BLACKSMITH'S HAND HAMMERS.
No. 191—2 lbs., with Handle. Each
FARRIER'S HAMMERS.
No. 160—Each
PIG. No. 102—DRILL PRESS.

FIG. No. 102—DRILL PRESS.

Floor space over all, 9x16 inches; total height, 37 inches; upright column, 1% inches diameter; drive gear wheel, 8 inches diameter; table, 6 inches diameter; greatest distance from spindle to table, 10½ inches; fly-wheel diameter, 14½ inches. Has extension crank and adjustable feed. Uses ½ inch straight shank drills. Each \$11.25. 102 drill with tight and loose pulleys for power, \$15.00.

No. 91—Drill Press. \$16.00

SILVER & DEMING DRILLS

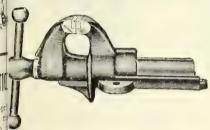


No. 112. Fitting Boynton & Plumer and Silver & Deming Black-

smith's	Dril	l Press	ses, Nos. 1	and 2.	with	shanks	1/2-inch
diamet		T · ·	25 1 12			T 1 1	Datail
		List	Retail	ابا	ength,	List	Retail
Diam.	in.	Price	Pr. ea.	Diam.	in.	Price	Pr. ea.
1-8	6	\$0.45	80.35	1-2	6	\$1.00	\$0.76
3-16	6	.50	.38	5-8	6	1.30	.89
1-4	6	.60	.46	3-4	6	1.70	1.30
5-16	6	.70	.53	7-8	6	2.10	1.60
3-8	6	20	C7	1	6	2.50	7.90

IOCK ISLAND OVAL SLIDE VISE

No. 150 and 85 Forges are ke one shown with Black-



superior vise in this style. Has ool steel jaws.

Ŋ				Retail
To.	Size.	Opens.	Weight.	Price.
61	2½ in.	3 % in.	8 lbs.	\$3.10
52	3 in.	4 in.	14 lbs.	3.75
63	3½ in.	4 1/2 in.	22 lbs.	4.60
64	4 in.	4 1/2 in.	30 lbs.	7.25
865	5 in.	4 ½ in.	35 lbs.	10.00

ROCK ISLAND ANVIL VISE

7-16



Anvil and vise combined, with jaws

Anvil and vise combined, for holding pipe.
This vise is intended only for light work. This is the best finished vise of this type on the market. Has steel screw with cut threads, steel nut, and cold-rolled steel handle. Anvil and all finished parts highly polished and lacquered No.

No. 380—Width jaw, 3 inches; opens 5 inches; weight, 26 pounds. Retail Price,

ANVILS



These anvils are ideal for farm and

These anvits are ideal to shop use.
Eagle cast steel with steel face. 108 lbs., per lb., 23c.
Rock Island Semi-Steel, each, 50 lbs., \$6.00; 75 lbs., \$9.60; 100 lbs., \$12.00.

	3	RI.	ACKS	IV	TH	SLE	OGE	S.			
10			lbs.,							. 15	0.
			STO								
10	lbs.,		lbs						. 4	. 15	٥,
1.1/	to		्राच्या १							25	0

COLEMAN QUICK-LITE

LAMPS AND LANTERNS

"Lights of a Thousand Uses."
It is always ready, safe and dependable.
Gives 300 candle power of wonderful white light.

It is economical—48 hours' light on one gallon of gasoline.

Makes and burns its own gas from com-

makes and burns its own gas from common motor gasoline.
Lights with matches.
Wind proof; storm proof; bug proof; wildest gale can't blow it out.
Can't spill fuel or explode even if tipped

No wicks to trim, no chimneys to wash;

no daily filling necessary.
No smoke; no soot; no odor.

No smoke; no soot; no odor.
Built of brass, inspected, tested, guaranteed. Will last a life time.

Lamp is used daily in over a million homes. "Just the Thing" wherever light is needed about the house—reading, sewing, studying, playing and the evening "get-together."

Lantern is "Just the Thing" for all

Lantern, \$7.50. Lantern is "Just the Thing" for all No. L 427. With kinds of outdoor night work—hunting, Built-in Pump fishing, camping, harvesting, feeding, milking, plowing, repairing.







No. L 327

No. C 335 D Price, \$12.25.





GENERATORS 35c. each.



COLEMAN MANTLES Two for.....\$0.20 Per Dozen.....1.00



It is simple in design, highly polished ironing surface of 15 square inches. Double point makes it wrinkle proof. Fuel tank capacity, one-half pint. Two-part lid, separated by asbestos, keeps landle cool Frie 55. handle cool. Price, \$5.50

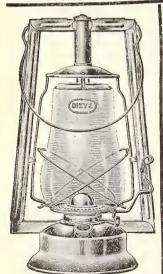
COLEMAN RADIANT HEATER



Clean, fresh, invigorating heat, and lots of it! Glowing warmth and cheerful comfort! That's what you get when to you have a to Coleman Radiant Heater on the job. This handy heater is







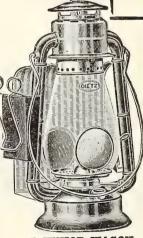
NO. O DIETZ VICTOR.

"The "Victor" meets every recuirement in situations where dependable lighting power is required. It gives the best light obtainable in a hot blast lantern with %-inch wick. It has strong, beaded, square ribbed tubes and is a constant burner in any weather. Price, \$0.90.

No. 2 DIETZ BLIZZARD

The No. 2 "Blizzard" signifies the best to be had in large lanterns of high globe, cold blast type. It has patented reinforced tubes, with a specially braced lift guide. Price, \$1.35. "The "Victor" meets every

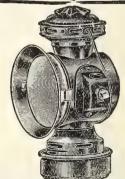




DIETZ JUNIOR WAGON LANTERN.

Dietz "Junior" Wagon Lantern is "Junior" Wagon Lantern is much in demand because of its fine appearance, small size and cold blast light, which equals in power that of much larger lanterns of ordinary construction.

It has a law-abiding ruby rear lens and fits round or flat holders. Price, \$1.90.



DIETZ EUREKA DRIVING

LANTERN.
Dietz "Eureka" is a highly
pendable small Driving dependable Lantern, ideal for any light vehicle.

vehicle.

It is made of cold rolled steel, with positive locking oil fount and lawful ruby rear lens. The Eureka is also used as an automobile parking lamp to save battery current. Its handy bail makes it a very convenient portable light in case of mishaps on the road. Price, \$2.00.



Long Handle Manure Forks

Į			
l	1		Each
ı	o.	0441/2 Z-Four tine, 41/2-foot handle, strap ferrule	.\$1.30
ĺ	'O.	0541/2 X-Five-tine, ferrule, lond handle	. 1.85
۱	·0.	0641/2 X—Six-tine, ferrule, long handle	1.75
Į	٧.		
١		BATCHELOR FORK.	
ı	0.	044 Four-tine, 4-foot handle, strap ferrule	. \$1.60
ı	0.	44 Batchelor Fork, four-tine, 4-foot handle, plain	1
ı	fe	errule	. 1.45
ı		D-HANDLE MANURE FORKS.	
١			41 00
١	0.	04 DZ-D Handle, four-tine	. \$1.30
ı	0.	4 W-D Handle, four-tine, plain ferrule	. 1.85
	0.	05 D—D Handle, five-tine, cap ferrule	. 1.80
		06 D-D Handle, six-tine, cap ferrule	
		151-Four tine, diamond tine, heavy, malleable I	
		andle	
		153-Four 16-inch extra heavy tines. 27-inch woo	
		handle	
		157—Five 16-inch extra heavy tines. 27-inch wood	
	D	handle	. 3.45

GENERAL UTILITY FORK

WIRE POTATO SCOOP



STEEL BARLEY FORKS

Four 18-inch oval tines, strap ferrule, 5-foot No. B 0185bent handle.

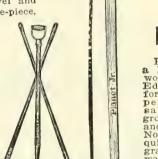
ENSILAGE FORKS

No. 508—Eight 16-in. tines, strap ferrule, iron D handle .\$2.45
No. 510—Ten 17-in. tines, strap ferrule, iron D handle ..\$2.90

GARDEN

5-T Rake, Shovel and No. 3 P F-Three-piece, Shovel and

Hoe, \$1.85

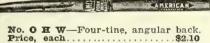


Planei Ir. No. 2 Lawn Edger

Everyone who uses Everyone who uses a lawn mower has work for one of these Edgers; adjustable for a tall or short person. Indispensable in keeping grounds looking neat and attractive, the grounds looking neat and attractive, the No. 2 Edger will quickly edge the grass bordering all walks, straight or curved, cement, stone or brick. It is easily operated; in fact, it is so much like play to use it that you will find pleasure in keeping your lawn always neatly edged. keeping your lawn always neatly edged.

Price, \$1.60.

SPADING FORKS



Price, each\$2.10

-Medium Weight, angular tine, malleable D handle, strap fer-\$1.55 D handle. Price.

J 0 4—4 polished tines, extra heavy strapped ferrule, 4-foot handle. Boys' four-tine. Price.

SCUFFLE HOES



EDGING KNIFE

o. 040-Solid Steel Turf Edger, \$1.15



SIDEWALK CLEANERS

No. O S C-No. X 8-8

WITH PLAIN STRAP FERRULE.

No. X.—4½ ft., with plain rrule, with cap. List, Doz., .90; Retail, Each, 45c.
No. X.—1½ ft., with strap rrule and cap, List, Doz., '.70; Retail, Each, 55c.

MANURE FORK HANDLES. List, Ret'l,

Plain. Doz. No. X-4½ft. ...\$4.40 \$0.35 HAY FORK HANDLES. Plain. Doz. Ea.

No. X—6 ft. \$6.70 \$0.50

No. X—7 ft. 10.00 .75

No. X—8 ft. 14.20 1.10

GARDEN HOE HANDLES. Doz. STO. X..... \$3.40 \$0.25

EYE HOE HANDLES. List, Ret'l, Doz. Ea. No. X .- 5 ft. 2 in. butt..... \$5.40 \$0.40

SHOVEL HANDLES.

Doz. Ea. No. X .- L. H., 41/2 feet\$5.70 \$0.45 So. X.—D. H..... 9.00

BAKE HANDLES.

List, Ret'l Ea Doz. No. X-5 ft....\$3.90 \$0.30



RAKES STEEL No. 10 C—Curved tooth, 10-tooth...\$0.95 No. 12 C—Curved tooth, 12-tooth... 1.00 No. 14 C—Curved tooth, 14-tooth... 1.15 No. 16 C—Curved tooth, 16-tooth... 1.25 AMERICAN No. 10—Straight tooth, 10-tooth...\$0.90 No. 12—Straight tooth, 12-tooth... .95 No. 14—Straight tooth, 14-tooth... 1.05 No. 16—Straight tooth, 16-tooth... 1.10 No. 18—Straight tooth, 18-tooth... 1.20 BOW STEEL RAKES No. B 12—Prize bow-braced rake, solid steel, 12 teeth. Price, \$1.10 each. No. B 14—Prize bow-braced rake, solid steel, 14 teeth. Price, \$1.20 each. No. B 16—Solid bow-braced rake, solid steel, 16 teeth. Price, \$1.30 each.

PRESSED STEEL RAKES



STEEL ASPHALT RAKES No. 1014-14-tooth, strap ferrule.....

WIRE LAWN RAKES No. 220

As can be seen by the shape of the teeth, these rakes run smooth and will not dig in the sod. By reversing the double teeth are used for leaves and rubbish. 21-inch head. 24 Teeth, with Handle. 80c. each.





PLANTER HOES

No. P 75—Heavy-Handled Planter Shank Hoe, 7-in. blade . \$0.95
No. P 7½-5—Heavy-Handled Planter Shank Hoe, 7½-inch blade
No. P 8½-5—Heavy-Handled Planter Shank Hoe, 8-inch
blade

COTTON HOES

No. C 75-7-inch-Handled	Cotton	Hoe		 	.\$0.90
No. C 75— 7-inch-Handled No. C 85½ —8-inch-Handle	ed Cotton	Hoe	• • • •	 • • • •	9!

MORTAR HOES

No.	9-9-inch Blade, Solid Steel Shank, 51/2-foot Handle. \$1.	26
No.	10-10-inch Blade, Solid Steel Shank, 6-foot Handle 1.3	3(
No.	S 9-9-inch Blade, Solid Socket, 5½-foot Handle 1.3	3(
No.	S 10—10-inch Blade, Solid Socket, 6-foot Handle 1.	£(



WARREN HOE

Very useful in making rows and weedin and onions. Hilling, drilling and weeding, cov

ering seeds, etc.

W 7—Polished Steel Garden...\$1.1

W 7½—Polished Steel Field.....1.2

CRESCENT CULTIVATOR HOE

No. 67-7-inch steel blade, 41/3-foot handle......\$1.00



-Four-Point, Steel Weed Hoe and Rake\$1.0

STREET HOE

No. 12 S-12-inch blade, steel shank, 6-foot handle ...\$1.6

DIG-EASY MATTOCK HOES

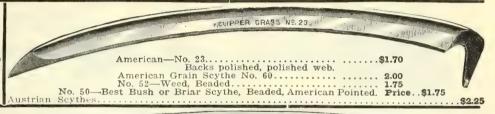
This Hoe is similar to Crescent Double-Bit Hoe, and is mad

No.	DЕ	2-1%-inch and 2-inch blades
No.	DE	3—1%-inch and 3-inch blades
No. 1	D E	$3\frac{1}{2}$ — $1\frac{1}{3}$ -inch and $3\frac{1}{2}$ -inch blades
	_	- / / - / - / - / - / - / - / - / -



Bush and Brier Hooks

No. 380—Axe Handle Hook\$1.35 o. 390 — Two-Ring Bush Hook....\$1.35





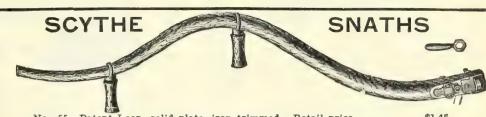
English T. Waldron, 36 in. \$2.85 English T. Waldron, 38 in..... 2.95 English T. Waldron, 40 in. \$3.06

Eng. Waldron Grain Scythes, 52 in. 3.60

Scythe Stones

SIR PYERS MOSTYN TALACRE QUARRIES

Ea	.ch
Vestern Red End1	0c.
uinnebog1	5c.
nglish Round2	5c.
arby Creek2	Oc.



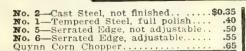


Price

CORN HOOKS

The American Sickle Edge Hay Knife

The best cutting knife made, Right of left hand, Section can be easily replaced. Price.....\$2.00





No. 4 B. O. H.—Heavy Broad Oval Tines, Bent Head, 5-Foot Handle

No. 5 B. O. H.—5 Tines, Heavy,
Broad Oval Tines, Bent Head,
5-Foot Handle

MANURE HOOKS

-Four Oval Tines, Bent Head, Plain Ferrule, \$1.25 M. 40—Four Oval Tines, Bent Head, Plain Ferrule,
 6-Foot Handle
 M. 60—Six Oval Tines, Bent Head, Plain Ferrule,
 6-Foot Handle

CORN KNIFES

No. 21-"Will Cut" or Clipper......\$0.50



The Premium Balance Cradle is made from best material and nicely finished with English Waldron Blade. Four-finger, \$7.25; Five-finger, \$7.75; with Four-finger American Blade, \$5.50; Five-finger, \$6.00.

Oil Sprung Cradle Fingers, 30c. each.



The second secon	1.1	List	Retail
274 Oriole-D Handle,			\$1.55
276 Oriole—D Handle.	West. Pattern, Size N	0.6 . 31.68	1.65
278 Oriole—D Handle,	West. Pattern, Size N	0.8 34.56	1.80
264 Oriole—D Handle,	East. Pattern, Size N	0.4 28.80	1.50
265 Oriole-D Handle,			1.55
266 Oricle—D Handle,	East. Pattern, Size N	0.6 30.72	1.60
Control of the Contro			To average a

PLAIN BACK SHOVELS—Carbon Steel.

	-						LIST	retair
512 Gritco-D	Handle,	Square	Point,	Size	No.	2	.\$30.72	\$1.60
513 Gritco-D							. 31.68	1.65
514 Gritco-D							32.64	1.70
712 Balto D							24.96	1.30
713 BaltoD							25.92	1.35
714 BaltoD	Handle,	Square	Point,	Size	No.	4	26.88	1.40
2.00	Carlotte Committee		-		-			

HOLI	LOW BACK :	SHOVEL	S—Carbo	n S	Steel.	
					List	Retail
212 Oriole—D I	Handle, Squai	re Point,	Size No.	2	. \$24.00	\$1.25
213 Oriole—D I	Handle, Squai	re Point,	Size No.	3.	. 24.96	1.30
214 Oriole-D I	Handle, Squar	e Point,	Size No.	4	. 25.92	1.35
215 Oriole-D I	Handle, Squar	re Point.	Size No.	5	. 26.98	1.40
216 Oriole-D F	Jandle, Squar	e Point.	Size No.	6	27.84	1.45



532 Gritco—D 533 Gritco—D 732 Balto. —D	Handle,	Round	Point,	Size	No.	3.,	31.68	Retail \$1.60 1.65 1.30
100	- 77		-			-		



552 Gritco—D 752 Balto. —D		Spades,				\$1.60 1.30
	and the same of		 	_	 	

PICKS, MATTOCKS AND GRUB HOES



No. 1 Gritco—6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality
Warranted Steel Railroad Picks
No. 2—6 to 7, 7 to 8 and 8 to 9 lbs., Regular Iron Railroad
Picks
No. Retail.
1—Gritco—5-lb. Best Quality War. Steel Mattocks\$1.15
1—Gritco—6-lb. Best Quality War. Steel Mattocks\$1.35
2-5 and 6-lb. Best Refined Iron Mattocks (Steel Cut-
ters)
1 and 2 Gritco—Warranted Steel Grub HoesEach, 1.00

PICK AND MATTOCK HANDLES List Retail

 PLAIN BACK SHOVELS-Carbon Steel.



No.			List	Retai
542 Gritco—Long Handle,	Round Pt.,	Size No.	2 \$33.60	00 a
742 Balto. —Long Handle,	Round Pt.,	Size No.	2 24.96	1.3

HOLLOW RACK SHOVELS-Carbon Steel



List Retai

\$1.3

722 Balto.—Long Handle, Square Pt., Size No. 2.. \$24.96

HOLLOW BACK SCOOPS.



FURNACE SCOOP

D Handle....

PLAIN BACK SPADES.



554 Gritco—Long Handle Spades, Size No. 2....\$33.60 \$1. Reta 754 Balto. —Long Handle Spades, Size No. 2....24.96

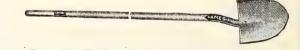
DITCHING SPADE

List Ret

818—18-inch Blade\$33.60

List Ret: ...\$33.60 \$1.

AMES SHOVELS & SPADES





Ames D. H. Spades.





WROUGHT SCREW AGRICULTURAL WRENCHES.



6 in. 12 in. 15 in. \$0.85 \$1.20 Retail price, each. \$0.60 80 80 List price, per dozen.....10.00 12.00 14.00 17.00 24.00

MACHINISTS' KNIFE HANDLE WRENCHES



18 in. \$3.60 48.00 Retail 21 in. price, each....\$1.15 List price, doz..15.00 \$1.35 \$1.65 23.00 58.00 22.00 38.00

STILLSON WRENCHES.

l.				
Si	ze.	Grips.	List.	Retail.
6	in.	1/2 wire to 1/2 pipe.	\$2.00	\$0.95
	in.	1/8 wire to 3/4 pipe.	2.25	1.05
10	in.	1/8 wire to 1 pipe.	2.50	1.20
14	in.	1/4 wire to 1½ pipe.	3.50	1.65
	in.	1/4 wire to 2 pipe.	5.00	2.30
	in.	$\frac{1}{4}$ wire to $2\frac{1}{2}$ pipe.	7.25	3.45
	in.	1/4 pipe to 3½ pipe.	13.50	6.25
8	in.	1 pipe to 5 pipe.	20.00	9.25

TWIN WRENCHES.

rwin. 10 in. long. List, per doz., \$18.00. Retail, 75c. each.

COLD CHISEL.

PUNCH.

% in. 1/2 in. \$0.25 Retail price, each

BELT PUNCHE

Retail Price, Each, Four-tube, \$0.95. Six-tube, \$1.15. Single

ROCK ISLAND, Combination Forge, Anvil. Vise, Drill and Pipe Vise

Frame—The frame is steel, center casting is used for shelf for tools,

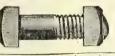
Shank Drill.

OUR SFECIAL PRICE. \$26.00
Champion Combination Tool, same as above, but has grinding attachment.

OUR SPECIAL PRICE. \$28.50



PRICE85c.



MACHINE BOLTS



CARRIAGE BOLTS

В											1	 									
t 1.	Inches.	List, 100.	Each.	List, 100.	Each. List,	Retail, Each.	List, 100.	Retail, Each.	List,	Retail, Each.	Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each,	List, 100.	Retail, Each.	List, 100.	Retail, Each.
ı		1/4		5/16	3/8		7/16		1/2			1/4		5/16		3/8		7/16		1/2	
31.	1½ 22½ 33½ 4½ 55½ 66½ 77½ 890 1234 4567 8990	\$1.60 1.80 2.00 2.15 3.05 3.20 3.35 3.50 3.65 3.50 4.00 4.15 4.70 5.05 5.40 5.75	\$.03 .03 .03 .03 .04 .04 .04 .05 .05 .05	\$2.30 2.85 3.05 3.05 3.30 3.55 4.25 4.70 4.90 5.10 5.35 5.80 6.70 7.15 7.60	\$.03 \$2.9 .03 3.2 .03 3.6 .03 3.6 .03 3.6 .04 4.5 .04 6.5 .04 6.5 .04 6.5 .04 6.5 .04 6.5 .05 8.5 .05 8.5 .05 8.5 .05 10.2 11.3 11.3	5 .03 0 .03 0 .04 5 .04 0 .04 0 .05 5 .05 5 .05 5 .06 6 .06	5.20 5.70 6.10 6.55 7.00 7.40 7.85 8.30 8.75 9.20 9.65 10.10 10.55 11.45 12.35	.04 .04 .05 .05 .06 .06 .06 .07 .07 .08 .09 .09 .10 .10 .12 .12 .12	\$5.65 6.10 6.55 7.00 8.35 7.90 8.35 9.70 10.15 11.05 11.50 11.50 12.40 15.60 16.50 17.40 18.30 19.20 20.10 20.10 21.90 22.80	.05 .06 .06 .07 .07 .07 .08 .08 .09 .09 .10 .12 .15 .16 .17 .18 .18 .18	1½2 2½3 3½4 4½5 51½6 61½7 7½8 8½9 9½10	\$1.50 1.65 1.85 2.00 2.20 2.90 3.05 3.20 3.35 4.00 4.20 4.35 4.55 4.70 4.90 5.25	.03 .03 .03 .03 .03 .04 .04 .04 .04 .04 .05 .05	\$2.20 2.40 2.65 3.10 3.35 4.05 4.50 4.70 5.15 5.35 5.60 6.05 6.25 6.95	\$.03 .03 .03 .03 .03 .03 .04 .04 .04 .04 .05 .05 .05 .06 .06	\$2.80 3.123 3.455 3.75 4.10 4.455 5.65 6.90 6.63 6.95 7.30 7.95 8.25 8.25 9.30	.03 .04 .04 .04 .05 .05 .05 .06 .06 .06 .07 .07 .08		.04 .04 .05 .05 .05 .06 .06 .07 .07 .07 .08 .08 .09 .09	10 65 11.10 12 05 12.50 12 95	\$ 05 .06 .06 .07 .07 .07 .07 .08 .08 .09 .10 .11 .11 .12 .13

All ¼-inch bolts are packed 100 in package. All 5/16-inch, %-inch and ½-inch bolts are packed 50 in package.

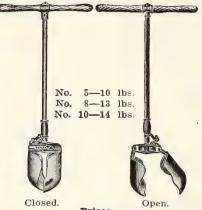
SNOW SCRAPER



SNOW SCRAPER BLADES made of high carbon shovel steel. Will wear a long time. Castings of best malleable fastened to blades and handle; Handles of ash, tough, strong and smoothed. All metal parts given a coat of black paint.

15-inch wide. \$1.90
24-inch wide . 2.25

THE STANDARD EARTH AUGER



Prices. No. 5 bores four different size holes, 5, 6, 7 and 8 inches in diameter, 3½ feet deep. Each, \$6.00.

No. 8 bores seven different size holes, 8, 9, 10, 11, 12, 13 and 14 inches in diameter, 3½ feet deep. Each, \$7.00.
No. 10 bores nine different size holes, 8, 9, 10, 11, 12, 13, 14, 15 and 16 inches in diameter, 3½ feet deep. Each, \$8.00.

GIBBS' POST-HOLE DIGGER

Digs faster, works easier than any other on the market. All wearing parts have steel pine. Makes a hole of any desired diameter. First-class for treeeter. Fi

PRICE\$2.50



Iwan Post-Hole Auger

3-inch Iwan Post-Hole Auger.....\$4.00

4-inch Iwan Post-Hole Auger.....



Tethering Anchor

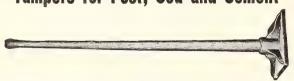
This simple little device is a very handy anchor for tethering animals. It is constructed on the cork-screw principle, making it easy to work into the ground, and after being placed it makes a strong anchor Price\$1.00

Cast Mauls with Wood Ends and Wood Handle



7.11	Pounds,	Hac	\$1.90
12	Pounds,	Eac':	
16	Pounds.	Each	2.70

Tampers for Post, Sod and Cement



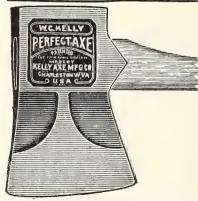
With extra lar	ge wood hand	lles, 2¼ inc	ches in diameter.
No. 2 Round Tamp	per, 5 in. Dian	neter, 15 lbs	., Price\$1.80
No. 5 Square Tam	per, 6 in. x	in., 12 lbs	., Price 1.60
No. 6 Square Tam	per, 8 in. x	3 in., 17 lbs	., Price 2.10
No. 7 Square Tamp	per, 10 in. x 1	0 in., 20 lbs	., Price 2.50

ICE HOOKS

Mo.	I	H	6-ft.	Handle,	Strapped	Ferrule	\$1.25
No.	I	H	7 —7-ft.	Handle,	Strapped	Ferrule	1.50
Mo.	I	H	8 —8-ft.	Handle,	Strapped	Ferrule	2.00

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Kelly, Single Bit—3 to 4 lbs., 3½ to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs. Each





Cli Ma Bef

Jan

Kelly Axes

complete with handle. Price\$2.25

KELLY HALF-HATCH-ETS. Price.....\$1.25

AXE HANDLES

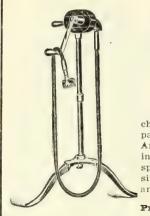
No. Excelsior-Extra Selected Second Growth. All White
Hickory Axe Handles
No. 2—White and Red Hickory Axe Handles
No. 3—White and Red Hickory Axe Handles

STEWART HORSE CLIPPING AND SHEEP SHEARING MACHINES



The Stewart No. 9 Ball-Bearing Sheen Shearing Machine

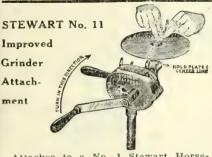
A very strong and durable machine. shipped knocked down in compact case. Gears are all cut from solid tool steel, are hardened and are enclosed in dustproof metal box. Has large balance wheel to assist in easy running. Every joint in the shaft and shearing head is fitted with ball-bearings, producing the most easy running and efficient shearing machine ever made. This is the machine to buy. Fitted with No. 7 ball-bearing shear, four combs and four cutters. Weight, 50 pounds.



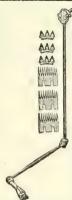
The Stewart No. 1 Ball-Bearing Horse Clipping Machine

Standard of the World.

A very rigid and very durable machine Shipped knocked down in compact box, weighing, complete, 36 lbs Anyone can set it up. Gears enclosed in dust-proof metal box are out from special steel and hardened. six-foot, easy running, flexible shaft and famous Stewart clipping head.



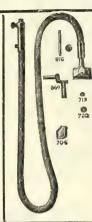
Attaches to a No. 1 Stewart Horse-Clipping Machine or Stewart No. 8 or No. 9 Sheep-Shearing Machine. Puts a perfect edge on horse-clipping or sheep-shearing knives. Every user of a horse-clipping or sheep-shearing machine should have one. Price, \$6.75. clipping or should have one.



Sheep-Shearing **Attachment**

For Use on Our No. 1

This attachment consists This attachment consists of complete No. 5 Stewart Shear Head, four sets of shearing knives, the solid core, universal jointed shaft and cogs, as shown here. Weight, boxed, 15 lbs. Price of complete attachment, as described, \$14.00.



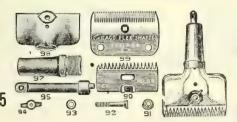
Horse Clipping Attachment

Will fit any Stewart Sheep-Shearing Machine.

Consists of eye spindle and six feet of high quality flexible shart. Also the famous Stewart clipping head. Can be attached in a few be attached in a lew seconds. Owners of a Stewart Sheep-Shearing Machine who have horses should have this attachment. Packed in box. Price, \$10.50.

Part of Handle and Knife Used on All Stewart

Horse Clipping Machines Before Jan. 1st. 1915

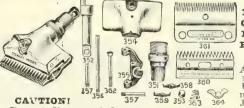


No.	. Net weight and	LISL
C-1	Stewart horse clipper handle and knife, complete 20 oz. Pair Stewart horse clipper blades, top and bottom 8 oz.	\$4.50 3.50
C-3	Horse clipper handle, complete, without knives. 10 oz.	1.50
90	Top plate 3 oz.	1.50
91	Tension spring of handle1-10 oz.	.15
92	Tension bol' of handle	.10
93	Eccentric roll of handle1-15 oz.	.15
94	Tension nut of handle	.10
9 F	Pin and shaft of handle	.35
97	Shank of handle	.50
98	Front part of handle4 oz.	.60
99	Bottom plate of handle5 oz.	2.00

TOILET AND

671—Fotlock Clipper \$1.75 Khedive Clipper..... 1.5 Parcel post weight, 1 pound.

PARTS FOR STEWART LATEST MODEL CUTTING HEAD



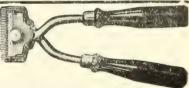
FOR HORSE-CLIPPING WACHINES. Patented.

all Stewart horse-clipping machines since January 1, 1915.

Do not file or grind any part of the clipping head in any way. It is exactly right to cut best. The only grinding to be done is to resharpen the cutting plates when they get dul, and that must be done right.

Be sure to let parts Nos. 358 and 359 alone. If they should be removed in any way, do not attempt to use the clipper head until they are properly replaced. Remove before grinding and replace after.

Horse or Dog Clippers





Wood Track Car-

CARRIER

WOOD

Our Special Price, 39.00

No. 1 — Double Harpoon Hay Fork, 25-in. tines. Retail, \$2.75.

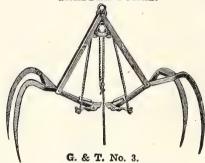
Harpoon Hay Fork

No. 1½—Double Harpoon Hay Fork, 31-in. tines. Retail, \$3.00.

G. & T. No. 1.

No. 2-Nellis Single Harpoon Fork. Retail, \$5.50.

GRAPPLE FORKS.



No. 3-4-7 tail, \$12.50. 4-Tine Aut. Grapple Fork. Re-

No. 3--6-' tail, \$14.50. 3-6-Tine Aut. Grapple Fork. Re-





No. 9 Maple Sheave 65c. No. 10 All Iron.... 65c. No. 11 Knot Passing 75c. No. 12 Wood Frame with Hook... 65c.

No. 13 Wood Frame with Eye..... 65c.

G. & T. No. 14. SWIVEL ROPE HITCH



Hitch. Retail, each, 40c.

Hudson No. 326 Adjustable Hay Carrier

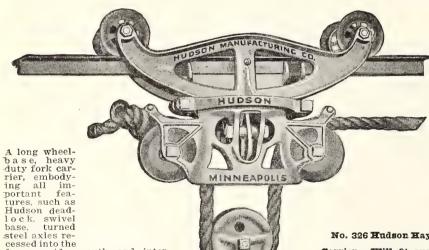
operation.

Entirely of

Entirely of malleable iron and high grade.
Track traveler and rope pulley sheaves revolve on turned iron bushing.
Car will not pass the trip-block while in specialism.

Steel Track Carrier.
Our Special Price,
\$9.00.

Steel Track for Grit-co Car. Per Ft., 23c.



cessed into the frame, wide mouth and interchangeability of parts. The 16-inch wheelbase distributes the load over a greater portion of the track. Carries load 15 inches from track. Shipped complete with Fork Pulley Trip Block and two Find Stops. and two End Stops.

When ordering for other than Hudson Track, specify name of track so that proper Trip Block can be furnished.

No. 326 Hudson Hay Carrier. Will fit any steel track.

PRICE, \$10.25. Steel Track, Price

26c. per foot.

Rafters **Brackets**

G. & T. No. 4.

No. 4-Rafter Bracket, steel. Retail, each, 6c.
No. 4—Rafter Bracket, malleable.
Retail, each, 6c.

FLOOR HOOKS.



G. & T. No. 5.

No. 5—Floor Hook, ¾-inch.

Retail Frice, 18c. each.

No. 5—Floor Hook, ½-inch.

Retail Price, 15c. each.



G. & T. No. 6.

-Hanging Hook, steel track.

Retail, 18c. each. 6-

WOOD TRACK HANGERS

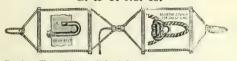
G. & T. No. 7. -14-in. Hanging Fook, wood No. 7—14-111. rack. 15c. each.

GRITCO TRACK HANGERS.
G. & T. No. 8.
8—Hanging Hook Steel Track.
Retail, 15c. each.



SLINGS

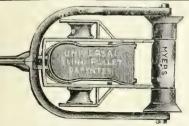
Iade adjustable to suit any length of rack, from 17 to 20 feet.



Our Special Price. Each.

 Jo. 15—Center Trip Sling, 4-foot bars.
 34.75

 Jo. 15—Center Trip Sling, 5-foot bars.
 6.50



Sling Pulleys

G. & T. No. 16.

Our
Special
Price.
Each.
04.55

_	CF-30	Each.
10.	16—Universal Sling Pulley	.84.50
10.	16—Ideal Sling Pulley	4.50
To.	16—Baltimore Sling Pulley	4.50



No. 20—Extra Trips of Suc No. 21—Coupling for Trac Rafter Nails, per pound... Steel Track, per foot.....

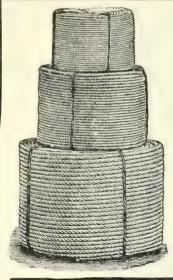
RAFTER GRAPPLE

G. T. No. 17.

No. 17-Rafter Grapple, Steel,

\$1.25 each.

				Special Price.	
				Each, \$2.00	
				Each, 1.35	
				Each, 1.00	
				Each, .35	
*	٠	0		Each, .15	



ROPE

Our stock of rope includes all sizes, from 3-16-inch up to 1 inch. These sizes we carry in stock and can furnish same in full coils or by the piece as desired. The quality of our rope is the best, and we will be pleased to name you the best possible price consistent with quality. We are unable to give prices here, as the market changes.

For Hay Forks we recommend ¾-in., 13-16-in. and ½-in., according to the length of rope.

Approximate length of Manilla rope per pound, 34-in., 6 feet to pound; 13-16-in., 5 feet to pound, and 78-in., 4 feet 3 inches to the pound.

Write for Prices.



Binder Twine

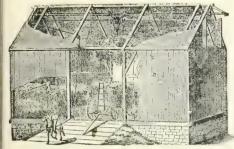
It is impossible to give the price of Binder Twine in advance, as the price is subject to market changes.

WRITE FOR PRICES.

FODDER YARN

PRICES ON APPLICATION.

Material Required for a Steel Track Outfit



Vo. 18—Hoisting Single Tree.
Vo. 19—Snatch Blocks.
Vo. 20—Extra Trips or Stops for Cars.
Vo. 21—Coupling for Track

For a 40-foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet 1/2-inch reverse rope.

For a 50-Foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet 1/8-inch reverse rope.

For a 60-Foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila ropw, 60 feet 3%-inch reverse rope.

IRON-STRAPPED BLOCKS



GRITCO HOIST

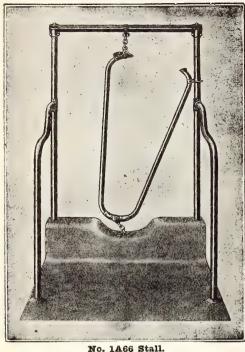
No. 40.—Two sheaves above, two sheaves below; for ½-inch rope; capacity, 1500 lbs. One man can lift 400 lbs. 3-inch sheaves.

Factory I is t, \$4.00. Our Special Price, \$3.00.

No. 34.—T w o sheaves above, 2 sheaves below; for ½ inch to ½ inch rope; capacity, 3000 pounds. One man can lift 500 pounds 4-inch sheaves. Factory list, \$6.00. Our Special Price, \$4.50.

No. 28.—T w o sheaves above, 2 sheaves below; for 34 inch to 74 inch rope; capacity, 4000 pounds. One man can lift 600 pounds 5-inch sheaves. Factory list, \$10.00. Our Special Price, \$7.00.





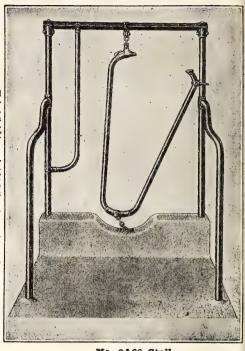
No. 1A66—One Post Stall, with No. 66 Tubular Steel Stanchion. **Price, \$10.35**No. 1A105—One Post Stall, with No. 105 No. 1A105—One Post Stall, With No. 160 Wood Lined Steel Stanchion. Price, \$11.00

Hudson Cow Stalls and Stanchions

All Hudson Stalls are furnished with long Angle Iron Base An-chors as illustrated on this page, unless otherwise ordered. When anchor is not desired a slight reduction from regular list price of stalls is allowed the purchaser.

As may be seen from the illustration, the two angle iron anchors extend the full length of the stall row. To the front one are bolted all the stall uprights and pipe anchors for stanchions, and the partitions are bolted to the one at the rear.

This makes it possible to ship the stalls in batteries of 2 or 3 stalls each, all set up ready to install. The entire row can be put together and will stand without the maze of props and braces which are such a nuisance when setting up many other makes of stalls. Think of the possibility of having your entire installation bolted together and standing in position, enabling you to judge of the final suitability of your layout before beginning to pour cement. For should this "size-up" indicate the desirability of a slight shift, one way or the other, it can be made before it is too late. be made before it is too late.



No. 2A66 Stall.

No. 2A66—Stall with No. 66 Tubular Stanchion. Price \$11.50

No. 2A105—Stall with No. 5 Wood

Lined Stanchion. Price 12.15

After the cement has been poured, the stalls will never become loosened in the cement, while the anchors and tubing furnish a re-inforcement between the floor and curb. We are fully convinced by the results during the year we have used it that our methods of anchoring is the very best that can be devised.

with swinging sure stop and with No. 100 adjustable wood

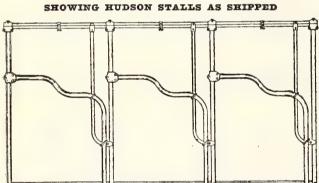
 With Swinging sure stop and with No. 100 adjustable wood

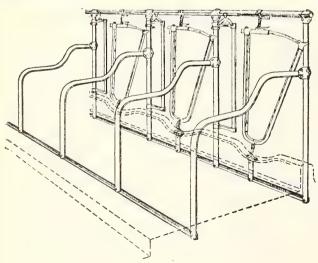
 lined stanchion. Price
 \$14.75

 No. 4B105 Stall with swinging sure stop and No. 105 stanchion.
 \$13.25

 No. 4B66 Stall with swinging sure stop and No. 66 Tubular steel stanchion.
 \$13.20

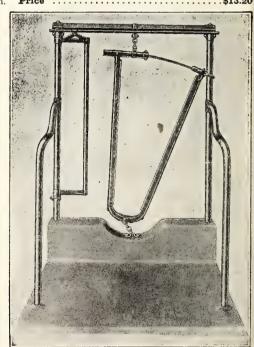
Assembled at the factory instead of on the farm. No chance for shortage. Job always complete.





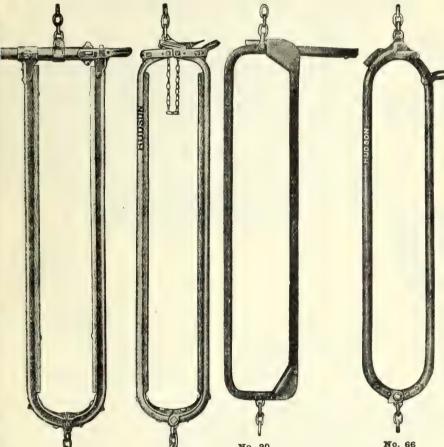
SHOWING METHOD OF INSTALLING HUDSON STALLS

and partitions securely bolted to angle iron anchor. Angle also acts as base to hold uprights and partitions in proper place, and rein-forces the concrete.





HUDSON STANCHIONS



HUDSON STANCHION No. 66.

Rust-resisting steel tubing assembled with certified malleable castings. Absolute cow proof latch. Smooth round surface which is very easy on cow's neck. Finished in special grey enamel. Approximate weight, 19 lbs. \$3.75

HUDSON STANCHION No. 90

Steel U. Bar Stanchion with heavy steel fittings; no castings used. Latch made of pressed steel, protected so the cow can not open it. Weight 19 lbs.

Price HUDSON STANCHION No. 90W

This stanchion is the same as the No. 90, only that the steel U bar has a wood lining on it. Weight, 20 lbs.

HUDSON STANCHION No. 105

This stanchion has been made for over 25 years, and is one of the high-est grade stanchions that sells for a reasonable price. High carbon, rust-resisting steel U bar and non-break-able malleable fittings. Wood linable malleable fittings. Wood linings specially seasoned hardwood, finings specially seasoned hardwood, finings are pressed into the steel U Bar so they can never split. Latch is of One Hand Lift type, locks automatically by the weight of the stanchion itself. Neck Space is adjustable from 6½ in. to 8 in., which is ample to take care of any cow. Weight approximately 23 lbs.

HUDSON STANCHION No. 110

This stanchion is offered to dairymen who want the very best. It is the strongest and most easily operated stanchion ever built. High Carbon, rust-resisting steel U Bar and certified malleable fittings. Selected certified malleable fittings. Selected Hard Wood Linings thoroughly seasoned and polished. Inserted into U Bar under pressure and securely fastened. Adjustable Neck Space from 6½ to ° inches. Weight approximately 27 lbs.

HUDSON STEEL WATER BOWL

No. 105



No. 110

The Hudson New Steel Water Bowl will not break. The bowl has a greater capacity and is easier handled; made of one piece of heavy gauge steel, galvanized, and attached by means of a special designed clamp, which grips the bowl so firmly that there is no possibility of it being knocked off by the cow.

Made of 14-gauge steel; formed with a heavy rolled rim and galvanized afterwards,

No. 90 No. 90W

rim and galvanized afterwards, so that the galvanizing will not be cracked in the process of

manufacture.

Size, $4\frac{1}{2}$ inches deep, 10 inches across the top.

Best Malleable Fittings, Brass Valve Fitted with standard size Rubber Fuller Ball, same as used in any ordinary water faucet; easily replaced. Valve seat of brass; will not rust. Pressure plate made of Malleable Iron, and rests low in the bowl, thus avoiding interference with the cow's muzzle in drinking. 1-inch pipe should be used for main supply pipe and 34-inch for the short length to connect the bowl main supply pipe.

Bowl weighs 61/2 pounds each.

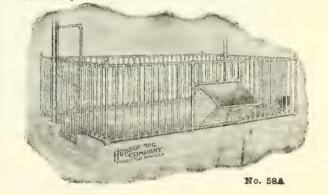
Price\$3.75

HUDSON SANITARY STEEL

No. 58A—Steel Cow Pen illustrated below is ideal for a maternity pen and can be used for a testing or feeding pen.

Specifications: The panel bars of the No. 58A Pen are 1 1/16 in. O. D. High Carbon Steel Tubing, spaced not over 6 in. on center with strong malleable iron fittings. Corner posts, Intermediate Posts, Gate Posts, Top and Bottom Rails and Gate Frame are 1% in O. D. High Carbon Steel Tubing. The gate is furnished with heavy malleable hinges and is supplied with a latch that has a gravity lock, which can only be opened by the operator. The pen is 4 ft. 9 in. high.

Hudson Cow Pens can be furnished with any style corner or square manger, and with adjustable stanchion built in panel if desired. Weight, 22 lbs. per lineal foot. Price, per foot, \$2.90.



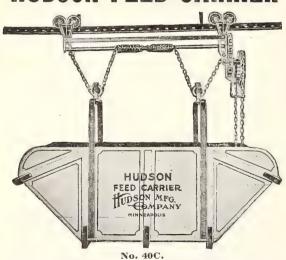
Hudson Chain Hoist Litter Carrier



This Hudson Heavy Duty Back Geared Litter Carrier is the result of long years experience in the carrier business. This carrier combines great strength and rapid action. It will carry the heaviest loads with perfect ease. The hoisting chain is of special strength and is of a length to correspond with the shaft on which it winds. Longer chains furnished if specified for special jobs. Carrier is equipped with friction brake. The tub is made of heavy galvanized sheet steel reinforced around the top and ends with 1 inch angle iron closely riveted. The carrier locks at both ends, which increases the life of the carrier. The bale is constructed of 1 inch by 1½ inch channel steel strongly reinforced. The chain shaft is 1 inch cold rolled steel. Full swiveled, tandem trucks which give greater bearing on the track and ease in turning corners.

No. 58B—Tub, 44 inches long, 26 inches wide, 22 inches deep, inside measurements, capacity, 13 bu. Weight, 200 lbs. Price, \$47.85.

HUDSON FEED

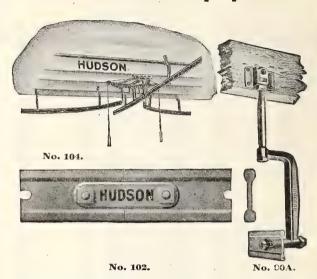


The Hudson Raising and Lowering Feed Carrier has all the track operating features found in our celebrated line of litter carriers, and is furnished with a tub or a carrier box, that is made of selected materials, and shaped so that the operator can work from either end when feeding.

Equipment can be furnished for the installation of a system of trackage in connection with the litter carrier system.

Capacity, 16 bushels. Weight, 225 pounds. Price, \$48.40.

Hudson Track Equipment



No. 102—I-Beam Track—This track with hangers placed twe feet apart will carry many times the load it will ever be called upon to sustain. It is not necessary to have bends made at the factory as the track can be curved to fit when being installed.

No. 103—Two Way all Steel Mounted Switch. No. 104—Three Way all Steel Mounted Switch.

High quality steel and malleable iron are used in the construction

of these switches, insuring durability.

Mounted and ready for installation—need no assembling on the

Either two or three way switches, right or lest hand, can be furnished. Both styles operate in same manner.

No. 102—Track per foot	.22
No. 90B—Hangers, 4 inch, each	.32
No. 90F—Hangers, 8 inch, each	.36
No. 90L—Hangers, 12 inch, each	.39
No. 90P—Hangers, 16 inch, each	.43
No. 103—Two Way Switch. 8 No. 104—Three Way Switch. 10	.25
10. 104—Three Way Switch	.35

Hudson Floor Feed Truck



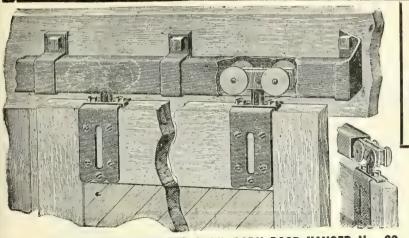
This a very convenient and durable truck, built of selected lumber well put together and strongly reinforced.

Load is evenly balanced on wheels, making truck easy to handle. Wheels are located so that truck may be turned in its own length.

Main wheels are fourteen inches high with a two inch face Castor wheel is seven inches in diameter. Axle is one inch colorolled steel shafting. Capacity sixteen bushels. Axle is one inch cold

This truck can be furnished with or withour the Hudson Scale Arch.

No. 141 Hudson Floor Feed Tru Weight, 210 pounds. Price, \$38.50. Hudson Floor Feed Truck, galvanized steel bottom.



TROLLEY ROLLER-BEARING STEEL BARN DOOR HANGER

The only difference between the No. 25 and 20 is the No. 25 has return apron, as shown in No. 25 cut below, and the No. 20 has not.
Weight, per pair, 10 lbs. Pendant, 6 inches long, 3½ inches wide, 3-16 inch thick. These Hangers have lateral adjustments, and are suitable for doors from 1½ to 2½ inches thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51; one left-hand bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. When ordering always give thickness of doors, the exact width of opening, and state whether for double or single doors. No. 31 track, No. 16 gauge, price, per foot, 25c. Hangers, No. 20, per pair, \$2.30.

No. 25 Trolley Roller-Steel Barn Door

Has two adjustments—vertical and lateral. Has return apron. (See cut). Pendant 9 inches long, 3½ inches wide, 3-16 inch thick. Suitable for doors 2 to 3 inches thick and weighing from 400 to 600 pounds. Made to run on No. 31 track. A pair of hangers consists of two nangers and carriers, one right and one left-hand bracket, complete with screws for hangers and late with screws for hangers and late with screws for hangers and late with screws for hangers and late.

and one lett-hand bracket, complete with screws for hangers and lag screws for brackets. Hangers and track sold separately. When ordering always give thickness of door, exact width of opening, and state whether for single or double door.

Per pair, \$2.70. No. 31 Track, per foot, 25c.

Anti-Friction Barn Door Hanger No. 2

PRICE, PER PAIR, \$1.20.



Has roller bearings, which cause the wheel to roll easily and prevent wear. Frame of open-hearth steel, strength sufficient for heaviest doors; standard treache used on other tracks.

The track is made of special carbon open-hearth steel, 1x3-16 stock; has heavy brackets well and substantially riveted every 12 inches. Ends made with tongue and groove to match. Track made in 4, 0, 3 and 10-foot lengths. Price, per foot, 10c.



STAY ROLLERS

For use with Barn Door Hangers. Price, each, 20c.

Extra Brackets for rolley Track, each, Trolley 22 cents.

Bearing

Hanger

a

One Bracket should be placed every three feet.

Double Brackets, each 70e.

Roller-Bearing Steel Bar and No. 24 Fire Door Hanger

> A pair of hangers con-sists of two hangers, one e a c h right and left-hand and left-hand brackets, and one center bracket, com-plete, with wood and lag wood and lag screws. The only Adjust-able Double Apron made Suitable for doors weigh-

doors weighing 400 to 600 lbs. Adjustment lateral
only. No. 1—For doors, 1¾ to 2¼ inches
thick; weight, 12 lbs. No. 2—For doors
2¼ to 3 inches thick; weight, 12 lbs. This
Hanger has return or double apron.
Per pair, \$2.60. No. 31 Track, per
foot, 25c.

FLEXIBLE HINGE BARN DOOR HANGER

No. 843.

The door can be swung out from the bottom at any angle
The flexible
feature allows the top

lows the top of the door to move awa of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel. 3-16x1½ inch, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Weight, dozen pairs, 70 lbs. Weight, track, per 100 feet, 105 lbs. Retail, per pair, \$1.25. Track, Retail, 12c.



R-W SLIDETITE GARAGE DOOR ROLLER BEARING HANGERS

Garage doors equipped with this fixture fold and slide inside building, requiring only minimum space. Recommended for doors not over three feet wide.

With this equipment, four doors hinged together in pairs make an ideal arrangement for the ordinary garage doorway, one pair folding to each side of the opening. When desired, however, three, five or six doors can be used, in which case the center doors swing free, making convenient entrance doors

SETS

Up to	D-11.	opening											\$11.60
Up to	12-ft.	opening				,			,				13.50
Up to	15-ft.	opening											20.00

SAMPSON HANGERS

No.	121-Sampson Hangers, per pa	air.			\$5.80
No.	33-Sampson Track, per foot.			0	.70
Sam	nson Brackets, each,				.70

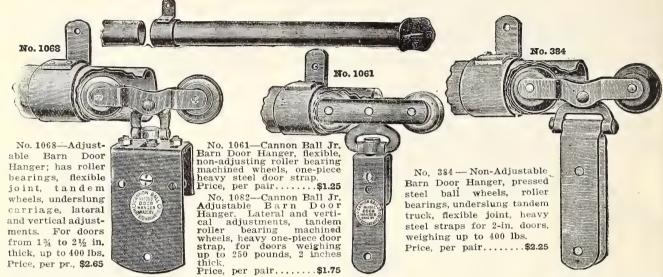


\$0.20 .31½ .18

\$.16 .18

.20

Cannon Ball Barn Door Hanger



Track Brackets not included in price of hangers.
Track Brackets, Joint, Center and End, each.
Cannon Ball Track, in lengths 3, 4, 6 or 8 feet, per foot.
Cannon Ball Jr. Track, 3, 4, 6 and 8 feet, per foot.
Lag Screws for Track Brackets, each.

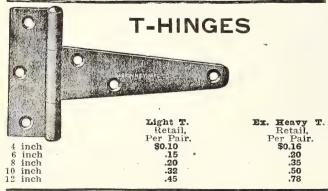
STRAP HINGES



SCREW HINGES



6 to 12 inches,	per 1b	10 c.
14 to 20 inches,	per lb	9½c.
22 to 36 inches,	per lb	9 c.



HINGE HASPS



			Each	1
3-inch	 			18
4-inch	 			19
6-inch	 	• • • • • • • • • • • • • •		.U

IRON, FLAT HEAD WOOD SCREWS

No. 4 No. 5 No. 6 No. 7	-½-inch— List, Gross. \$.75 78 .80 .84	Retail, Dozer. \$.05 .05 .07	No. 6 No. 7 No. 8 No. 9	% -inch	Retail. Dozen \$.07 .07 .08
No. 8 No. 9 No. 10 No. 11 No. 12	- 1-inch	Retail, Dozen. \$0.08 .08 .09 .09	No. 10 No. 11 No. 12	- 1 % -inch - List, Gross. \$1.30 1.40 1.55	Retail, Dozen \$.10 .10
No. 11	1½-inch — List, Gross. \$1.50	Retail, Dozen. \$.10	No. 12	— 2-inch — List, Gross. \$2.00	Retail, Dozen. \$.16

CROWBARS

No. 13 No. 14

60 Per Cent

2.20

from List

\$1.50 1.65 1.80

In Gross Lots.

Crowbars with Pinch Point. from 20 to 25 lbs., per lb., 10c. Crowbars with Wedge Point, from 20 to 25 lbs., per lb., 10c. Digging Bar and Rammer combined, each \$2.20. Digging Bar with Loop Handle, each, \$2.20.

WEDGES

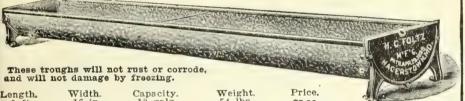
Strong steel wedges for splitting wood, have the right taper and will stick in the wood.

Weight from three to six pounds. Price, per pound.....

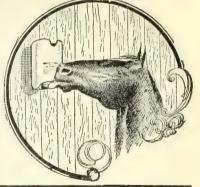
No. 12 No. 13



GALVANIZED STEEL STOCK TROUGHS



Width.	Capacity.	Weight.	Price.
16 in.	18 gals.		\$8.00
	24 gals.		8.80
	36 gals.	75 lbs.	10.60
16 in.	48 gals.	90 lbs.	12.35
16 in.	60 gals.	105 lbs.	14.85
16 in.	72 gals.	120 lbs.	17.60
20 in.	40 gals.	100 lbs.	11.00
20 in.	60 gals.	125 lbs.	13.20
20 in.	80 gals.	150 lbs.	15.40
	100 gals.	170 lbs.	18.70
	120 gals.	195 lbs.	22.00
	84 gals.		17.60
			20.90
			24.20
			27.50
27 III,	Too Parm	2 - 200	
	16 in. 16 in. 16 in. 16 in. 16 in. 16 in. 20 in.	16 in. 18 gals. 16 in. 24 gals. 16 in. 36 gals. 16 in. 48 gals. 16 in. 60 gals. 16 in. 72 gals. 20 in. 40 gals. 20 in. 60 gals. 20 in. 80 gals. 20 in. 100 gals. 20 in. 120 gals. 21 in. 120 gals. 24 in. 112 gals. 24 in. 112 gals. 24 in. 112 gals.	16 in. 18 gals. 54 lbs. 16 in. 24 gals. 61 lbs. 16 in. 36 gals. 75 lbs. 16 in. 48 gals. 90 lbs. 16 in. 60 gals. 105 lbs. 16 in. 72 gals. 120 lbs. 20 in. 40 gals. 125 lbs. 20 in. 80 gals. 125 lbs. 20 in. 80 gals. 125 lbs. 20 in. 100 gals. 170 lbs. 20 in. 100 gals. 170 lbs. 20 in. 120 gals. 195 lbs. 24 in. 84 gals. 185 lbs. 24 in. 112 gals. 185 lbs. 24 in. 140 gals. 215 lbs.



ROTO SALTS

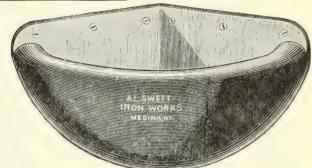
SALT CAKES, Each, 25c. ROTO SALT HOLDERS.



HORSE MUZZLES

Well made and of good stout wire.
No. 18—Plain. List Price, dozen,
1.20. Our Special Price, each 10c.
No. 16—Braced. List Price dozen,
2.00. Our Special Price, each, 15c.
No. 15—Braced. List Price, dozen,
2.50. Our Special Price, each, 20c.

Cast Iron Gorner Mangers



With Roll Front Food Guard.

No. 6—17 in. long, 17 in. wide, 10 in. deep.

Price, \$3.75
No. 7½—20 in. long, 20 in. wide, 10 in. deep. Price.

Wrought Iron Hay Rack



No. 12—Frame, 1 inch chan-nel, 8 uprights, ½ inch round bar, exceptionally strong and heavy.

Heavy Harness Hooks

No. 1-Upper Hook projects 12 in., lower hook projects 5 in. Approximate weight 4 lbs. Price.....\$,90

No. 2—Extra Heavy, Upper Hook projects 12 in., lower hook projects 7 in. Approximate weight 81/2 lbs.

Price\$1.70

Galvanized Hog and Sheep Troughs

(With Guards)

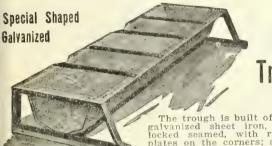
Length	Width	Capacity	Weight	Price
3 ft.	10 in.	6 gals.	30 lbs.	84.70
4 ft.	10 in.	8 gals.	35 lbs.	5.35
5 ft.	10 in.	10 gals.	40 lbs.	6.00
6 ft.	10 in.	12 gals.	45 lbs.	6.65
8 ft.	10 in.	16 gals.	55 lbs.	7.98
10 ft.	10 in.	20 gals.	65 lbs.	9.25

Heavy Cast-Iron Hog Troughs.

Iron Hog Troughs

No danger of them bursting in winter. Twelve inches wide at the top, 2 inches wide at the bottom and 7 inches deep. Made in lengths from 2 feet up to 12 feet, every 12 inches. Weight, 19 pounds to the foot. Price, \$1.00 per foot.

We also carry in stock a lighter weight trough like the one illustrated above. Price, \$0.90 per foot.



Hog **Troughs**

The trough is built of 18-gauge Ine trough is built of 18-gauge galvanized sheet iron, ends are locked seamed, with reinforcing plates on the corners; angle iron dividers across the trough at intervals of 12 inches, riveted to the glavanized sheets.

These angle iron dividers are so strong that a man can stand on them without bending them; they not only give the trough great rigidity and strength so it cannot wrack, but they also separate the hogs, keeping any one hog from monopolizing the entire trough. Hogs cannot tip the trough. The legs of the trough are on angle steel, fastened to the trough with heavy rivets.

The bottom of the trough is V shaped, and sides have a flare. 4-ft. length, \$8.00. 6-ft. length, \$12.00.



The Celebrated "GLECKNER" Harness and Horse Collars

Gleckner 1000 "Thousan" 1000 Style "W" plete with chains, set 4
Traces 1½ x6′, set 4
Belly bands, pr.
Back straps, pr.
Back straps, pr.
Breeching, pr.
Side straps, set 4
Choke straps, pr.
Breaching, pr.

Breaching, pr.

purpose Harness ever Breast straps, 1¾″, pr.

Wear-Resisting Improvements
Mountings Japan, Brass Ornaments.
Above price less collars.
No Breeching Harness as above with crupper and single hip strap to carry trace. Deduct

PRICE LIST PARTS

Bridles, pair.... Lines, 1 ½ "x20", set. Hames, brass ball, Lines, 178
Hames, brass ball, set 4
Traces, 11/2x6', complete with chains,

2" traces, Above prices less Collars

T. B. P. Ajan



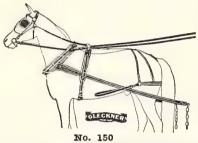
1 % " traces. Mountings Japan, Brass Ball Hames.

No Breeching Harness as above with rupper and single hip strap to carry race, Deduct

Bridles, pr.... Lines 1"x20', set Hames, 1"x20', set

Traces, 1½" x 6', complete with complete with chains, set of 4 Traces, 1¾"x6'. Billets, 1¼" Belly bands, 1¼" Back pads. Back straps.

Breeching
Side straps, 1",
set of 4.
Chokestraps, 1½" Breast straps, 1 1/2"



No. 150 Express Harness, 1 %" Traces, with chains, 4" Ker. Pad Saddle.

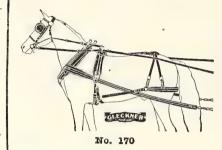
Price, ..

No. 11 Buggy Harness, 11/8" Single Strap trace sewed to Breast Collar neck or front rubber.

12H Hame Col-arness 14" Sinlar Harness 14 gle Strap trace.

Extra charge for

HARNESS PRICE ON APPLICATION



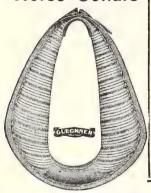
No. 170 Express Harness, 1½" Traces with Chains, 5" Hrg. Ker. Pad Saddle, Brass Trimmed, Our Special Price.....

Add for 1%" Trace

No. 160 Express Harness, 1¾" Traces with Chains, 6" Hrg Ker. Pad Saddle. Brass Swedge Trimmed.

Add for Chi. Bolt Scotch Hames...

Horse Collars



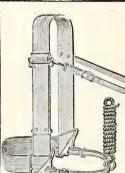
Sweat Pads

FELTLESS

Pinked, Felt Edges, Composite Filling, Four Hooks.

Old Gold Drill; best 8 on the market.





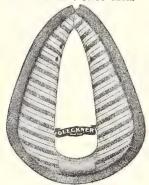
Adjustable Web Halters, No. 1

Continuous piece, solid olor. No 1 extra quatity web, folded through, metal corners, adjustable buckle. Leather chipiece with buckle. Ropplead, leather latch, snap.

Our Special Price, 75c. each.

No. 2-WEBB HALT-ERS. Price.....60c.

No. 014—17" Draft. Split back and rim, \$3.50 each. No. 50—17" Draft. Kip back and rim, \$5.00 each.



2 Irish-19" Draft,

\$6.75 each.
No. IX Irish—20" Draft,
Hairfaced by hand, \$8.90 ea.



No. 83½ — Half Sweeney, Full Kip, black-faced, \$7.25

No. 80—18" Draft. Straight, Full Kip, russet face, \$6.50.



40leather, \$1.35 each.

No. 21—1¼" Double stitched, \$1.60 each.

No. 90-%" Colt Halter. \$1.50 each.

ROPE CATTLE TIES

No. 652.-Half-inch Manila rope,

No. 652.—Half-inch Manila rope, 6 feet long, single snap. List Price, \$12.00 dozen. Our Special Price, 60c. each.
No. 655.—Half-inch XX Sisal rope, 8 feet long, single snap. List Price \$8.25 dozen. Our Special Price, 50c. each

ROPE HORSE TIES

No. 652.—Half-inch Manila, 10 feet long (2 snaps). List Price, S11.80 dozen. Our Special Price,

Coc. each.
No. 667.—Half-inch XX Sisal, 10 feet long (2 snaps). List Price, \$8.50 dozen. Our Special Price, 50c. each.

LEATHER COW HALTERS Our Special Price, \$1.50 each.

Colt Halter-Russet Leather

Made especially for colts; from best leather.
Our Special Price, \$1.75 each.





second growth, air seasoned timair seasoned timber, extra wide woods, superior finish, hand forged, extra heavy steel hook, 17 to 24 inches 24 inches. Per Pair. . . . \$2.25

> No. 1 HAME An excellent light hame and has three top strap loops in-stead of two as shown in cut. PRICE, as shown in cut. PRICE, per pair, \$1.25

VIRGINIA CART

No. 61



\$2.25

COW CHAINS

TRIUMPH CHAINS — Very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Bulldog Cow Tie (Ohio	pat.), each, 30c.
4-0	
No. 3-0-4½-ft. Halter, each, 40c.	6-ft
No. 0-20-ft. Bulldog Tethering	Chain, each80
No. 00-20-ft. Bulldog Tethering	Chain, each 1.00
No. 000-20-ft. Bulldog Tethering	Chain, each 1.15
No. 0-30-ft. Bulldog Tethering	Chain, each, . 1.00
No. 00-30-ft. Bulldog Tethering	Chain, each 1.25
No. 000-30-ft. Bulldog Tethering	Chain, each 1.40

OPEN SIDE LAP LINKS

Open Side Lap Links, polished, 1/2 x2 1/2 15c. 5% x3.....20c. ¾ x3.....25c.



Chain Repair Links

Chain Repair Links, 1/4 or 10-2.

REGULAR IRON TRACE CHAINS.

																				tail Pr	
6	1/2	-1	0-	.3		٠	٠	٠	٠			٠								\$.90	pair
7		-	8-	$\cdot 2$	٠															1.00	pair
7		-1	0-	.2									٠		·					1.10	pair
7		-1	2-	.2													_	_		1.30	nair
7		-1	4-	.2																1.50	nair
7		-1	6-	.2		٠				٠	٠									1.90	pair

SPREADER CHAINS

EADER CHAINS.

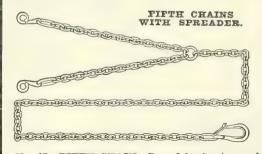
BREAST CHAINS

Cart



61

				Taper					
				Taper					
				-Singl					
28	in.	Dot	ıble	Slack,	pair	 	 		 1.10



No. 67—FIFTH CHAIN—Round hook, ring and swivel; black; made with spreader 8½ ft. long to spreader 13-32. Our Special Price, \$7.00.

KINNEL EMERGENCY CHAIN OVERSHOE FOR HORSES

NO EXCUSE FOR HORSES SLIPPING



Put the Kinnell Emergency Shoe on Your Horses. Prevents suffering and loss. Just the thing to prevent horses from breaking legs, causing innumerable falls, delay, suffering and financial loss on account of icy, snowy weather.

Special Chain Shoes for Mules; small, medium and large. The average 1400-lb. horse requires a No. 5. The average 1600-lb. horse requires a

Price, per Set of 4, \$6.00. Pair, \$3.00

TUG CHAINS.

Straight Link Slack Spreader Chain, 11/32. Our Special Price...\$4.00 13/32. Our Special Price...\$5.00 % Close Link Straight Spreader Chain for two horses, with three hooks each.

Our Special Price.....\$7.00

Cart Tug Chains, 18-10-1. Our Special Price, 60c. per pair.

BUTT CHAINS.

2	ft . 9 0	Don	Dain						•	rectail.
0	ft.— 8-2,	Let	Pair.		*	۰		0	۰	. \$1.00
3	ft.—10-2,	Per	Pair.				۰	۰	а	. 1.10

LOG CHAINS.

Long Link Log or Ox Chain, 5/16 in., 12 or 14 ft. Retail Price, 16c. lb. Long Link Log or Ox Chain, % in., 12 or 14 ft. Retail Price, 15c. lb. Long Link Log or Ox Chain, ½ in., 12 or 14 ft. Retail Price, 14c. lb.

No. 800-



All Steel closed back, la cquered, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars.

Our Special Price, 30c. ea.

No. 167—All steel, closed back, 6 bars. Our Special Price, 25c. each.

No. 167

No. 083-Open Back Curry Comb. Our Special Price, 20c. each.



Our Special Price. No. 940—Palmetto Dandy \$0.60 each .50 each 1.00 each



FOLDED DUCK BACK BANDS



		Band	
Per p	air, 3	½ in	\$0.25
Per p	air, 4	in	30

WEB BACK BANDS.									
Less Hooks.									
No. 1-3½-in., 42-in. long\$0.40									
No. 1—4 -in., 42-in. long45									
No. 2-3½-in., 42-in. long35									
No. 2-4 -in., 42-in. long40									
BACK BAND HOOKS.									
3½-in\$0.25									
4 -in									
HAME STRINGS. Black.									
%x42-inch slit, each\$0.20									
3/4 x 42-inch slit, each25									
Rawhide									

5% x42-inch slit, each......\$0.20

SHAFTS complete, painted, for Our Special Price, \$9.00. Ironed complete, painted, for Ironed Daytons and Surreys. Our Special Price, \$10.00

"Baltimore" Ironed **Buggy Pole** Is well ironed with

wrought-iron tees, heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for pole complete, which include neck yoke, double and single trees and check straps. Ironed, complete, painted. Our Special Price, \$12.50. Dayton Pole, Our Special Price, \$15.00.



Besides protecting the plant from the elements and from insects, "Hotkaps" are worth their cost alone because they aid in maturing crops earlier. That is the all-important thing to the grower, FOR IT MEANS THAT HE CAN BE FIRST TO MARKET AND SO COMMAND A BETTER PRICE FOR HIS CROP. Thus, "Hotkaps" far more than pay for themselves. They represent one of the best investments a farmer can make. Thousands have proved it; thousands more are discovering it every season.

		Price.						
100	Hotkaps	 .\$1.50	Hotkap					
1000	Hotkaps	 .10.00	Hotkap					

THE FARRELL GEARED POWER HOISTS

The hoists shown on this page are designed to meet the needs of the farmer and others who have gasoline, electric or steam power. The advantages of a hoist in unloading hay are that it does the work of a team, and does not require an extra man to operate it, since it can be operated by the man on the load, and it also saves time, because there is no delay due to hitching the team to the draft rope, and in returning the carrier, when a wait for slack rope is necessary. Our return drum hoist pulls the carrier back as soon as the fork is tripped. A hoist also saves wear on rope because it is not dragged over the ground.

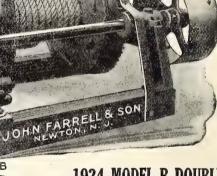
The advantages in using a hoist in unloading hay are many. If the fork is caught in the rigging the fork can be stopped instantly and released, thus doing away with possibility of breaking rigging or fork. The forkful of hay is separated from the load without a sudden jerk and is carried up smoothly and easily to the carrier, avoiding the firt when the carrier leaves the stop. The load is not torn to pieces and the hay shaken off in raising the fork to the carrier.

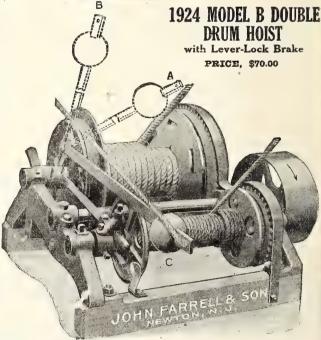
These hoists are simple in construction and positive in construction. They can be used for many numers when ever in construction and positive in construction.

These hoists are simple in construction and positive in operation. They can be used for many purposes where power is at hand and time



an object. Some of these uses are: Hay Unloading, Car Pull-ing, Handling Feed, Ice, Concrete, Coal, etc., and any light contractor's work.



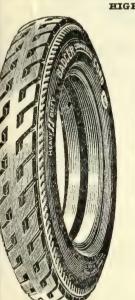


Setter.....\$2.50 Carrier..... 2.75

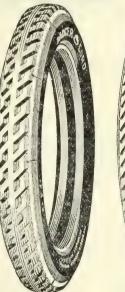


BADGER and BEAVER AUTOMOTIVE CASINGS and

An unusually complete line of Standard Quality Casings and Tubes, made by one of the largest Companies in the industry. It is complete in types and sizes to meet any service requirement, is easily competitive in quality and price, carries the Standard Warranty, and is a popular and profitable line for Dealers. HIGH-PRESSURE CASINGS



BADGER Commercial Cord



BADGER Standard Cord



BEAVER Cord

BADGER TIRES AND TUBES

	Badger Co	Badger Tubes		
Sizes	Badger	Badger	Badger Red	
	Standard	Commercial	Ex. Heavy	
30x3½ Cl. Reg. O.S360 30x3½ Cl. Full O.S385 30x3½ S.S.	\$ 9.10 10.95 12.85	14.70	\$1.80 2.15	
31x4 S.S	16.25	20.65	2,45	
32x4 S.S	17.20		2,60	
33x4 S.S	18.15		2,70	
32x4 ½ S.S.	24.3 7	29.35	3.25	
33x4 ½ S.S	23.45		3.40	
30x5		41.25	3.70	
33x5		39.70	4.10	
34x5		35.00	4.20	

BEAVER TIRES AND TURES

Sizes	Beaver Cords Cords	Beaver Standard Grey Tubes
30x3 Cl.	\$ 6.60	\$1.35
30x3 ½ Cl. Reg-350 30x3 ½ Cl. Full O.S385 30x3 ½ S.S.	7.65 8.45 10.35	1.60 1.85
31x4 S.S. 32x4 S.S 33x4 S.S	13.20 13.95 14.70	2.15 2.20 2.25

BALLOON CORD CASING AND TUBES

	COR	D CASINGS	1	INNER TUBES							
Sizes	Badger Standard	Badger Heavy Duty	Beaver	Badger Extra Hvy. Red	Beaver Standar Grey						
29x4.40 [\$11.45	\$14.35	\$9.45	\$2.35	\$1.95						
28x4.75 29x4.75 30x4.75	13.75 14.40 15.00		11.81 12.35	2.65 2.70 2.75	2.20 2.25						
29x5.00 30x5.00 31x5.00	16.25 16.90	18.75	13.25 13.75	2.75 2.85 2.90	2.35 2.40						
29x5.25 30x5.25 31x5.25	18 35 18.95 19.60	23.50	15.45 15.95	3.10 3.20 3.35	2.70						
29x5.50		23.65		3.35							
30x6.00 31x6.00 32x6.00 33x6.00 34x6.00 30x6.20 32x6.20	21.60 22.20 22.85 23.45	25.85 26.60 27.32 28.10 29.35 31.25 32.75	18.10	3.65 3.75 3.90 4.00 4.25 4.15 4.40	3.20						
32x6.75 33x6.75		35.00 35.95		5.25 5.50							

BEAVER TUBES



Standard Grey Balloon



Standard Grey

BALLOON CORD CASINGS



Heavy Duty BADGER TUBES



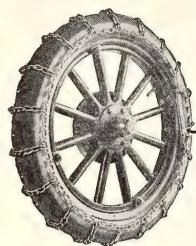
BADGER Standard



Extra Heavy Red



Red Balloon



Hodell First-Aid Tire Chains

HODELL FIRST-AID TIRE CHAINS are un-equaled in design, construction and general appearance and are being accepted by discriminataccepted by discriminating motorists as the latiest word in anti-skid devices. The Hodell Tire Chains are equipped with Hodell Cross Links which are finished in natural color, showing the temper of the steel, and likewise constructed with Lubinized Side Chains and fitted with Open Easy Fasteners.

Size 30x3½ 32x3½ 31x4 32x4 33x4 34x4	Price per set \$4.50 5.00 5.50 5.75 6.25	Size 35×4 $32 \times 4 \frac{1}{2}$ $33 \times 4 \frac{1}{2}$ $34 \times 4 \frac{1}{2}$ $35 \times 4 \frac{1}{2}$	Price per set \$6.75 6.25 6.50 6.75 7.25	Size 33x5 34x5 35x5 36x5 37x5 36x5 ½	Price per set \$7.50 7.50 8.00 8.00
		Cross C	hains.		
Size	Price -	Size	Price		
3½ in. 4 in.	\$9.10 _13	$\begin{array}{ccc} 4\frac{1}{2} & \text{in.} \\ 5 & \text{in.} \\ 5\frac{1}{2} & \text{in.} \end{array}$	\$0.14 .10 .18		

PARA-TITE



An all-rubber, self-vulcanizing repair material for inner tubes, and other soft rubber products. Makes a quick, secure and permanent repair.

In Screw	Top	Cans, per can	Price
		(56 sq. in.	Para-Tite.)

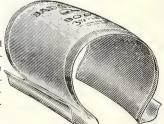
No. 340 DEFENDER INSIDE

SLEEVES

(All Fabric)

Made with white face and gray inside frictions with multiple plies heavy square woven. duck. Red rubber tipped. Branded Defender. An attractive medium-priced sleeve of excellence and durability.

	No.	V	Vidth Incl
Size	Plies	Length	Flaps
3"	3 -	8"	111/4"
3 1/2 "	4	9"	121/2"
4"	4	10"	131/4"
4 1/2 "	4	11"	15 1/2 "
5"	5	11"	17"



																				Price . \$0.35	
•	•	•	•	•	۰	۰	٠	۰	۰	۰	۰	•	۰	۰	۰	۰	۰	٠	٠	. 40.00	
	۰	٠							٠											40	
		۰														٠.				50	
	٠	٠				٠														55	
۰						۰			۰				٠							60	

OFF'N'ON

TIRE CHAINS PRICE LIST

OFF'N'ON CHAINS FOR BALLOON TIRES

For Balloon Sizes Marked 27x4.40	Off'n On Catalog N o.	Price Per Pair
28x4.40 29x4.40 30x3½ Cord		\$4.50
*29x4.40 Special		5.00
28x4.75 29x4.75 30x4.75	1098	6.25
29x4.95 30x4.95 31x4.95	1099	6.25
30x5.00 31x5.00 28x5.25 29x5.25 30x5.25 31x5.25	1081	7.25
30x5.77	1083	7.25
31x5.77 32x5.77 33x5.77	1091	8.25
30x6.00 30x6.20 31x6.00	1092	8.50
32x6.00 32x6.20 33x6.00 33x6.20	1063	9.00
30x6.75 33x6.60 32x6.75 33x6.75	1086	10.00

*A special chain of a size and weight between the regular (No. 1002) and the heavy duty (No. 1052). Recommended for use on Ford, Chevrolet, Star 4 and Erskine 6, where certain conditions may require additional strength and durability. Use cross-chain No. 1102.

THE SPRINGFIELD PUMP



A dependable single cylinder tire pump of large capacity and quick action, particularly recommended for inflation of Balloon Tires.

Carefully designed and skilfully made to meet exacting demands.

Attractive in appearance and especially constructed to withstand hard usage and abuse, and will last indefinitely.

Extreme ease of action permits inflation of tires quickly and with the least physical exertion

Cylinder, 20 Gauge Steel Tubing.. Full 7 inch Hard Wood Handle. Black Enameled. Polished Brass Handle Trimmings. Malleable Iron Base. 24 inch, 3-Ply, High Pressure Hose, Lock-on Connection. Knurled Brass Cylinder Cap, Polished. %-inch Tempered Steel Plunger Rod. Specially and Chemically Treated Leather Plunger Valves, Insuring High Compression and Indefinite Life.

Price\$2.00

1/2 In. % In-

Price



FOR FORD

The's Thice 60c

CHAMPION SPARK PLUGS

DEPENDABLE FOR EVERY ENGINE

Standard For Ford Cars - Ford Trucks **Fordson Tractors**

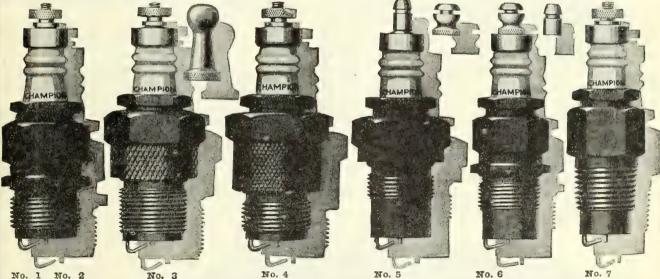
Champion is outselling because it is the better spark plug—better because of its wonderful double-ribbed sillimanite core. This core is the finest insulator ever devised. It is exclusively Champion's, because Champion controls the only known commercial supply of sillimanite.

It is far superior to ordinary porcelain and is practically immune to breakage. **Sillimanite** resists shocks so well that it makes possible the semi-petticoat tip of Champion cores. This tip becomes so hot in service that it remains free from carbon under the most trying engine conditions. Yet it never causes preignition or mis-firing because of its high heat

To this distinct advantage add the Champion two-piece construction, potential gaskets, manganese nickel electrodes and skilled workmanship with most exacting standards of supervision, inspection and thorough test.



FOR FORD X Long 1/2 Inch Long Price 60c



Standard Price 75c

Price 75c

Case

Jordan

Moon

1/8 Long Regular 1/8 Long Body Regular Price 750

% Long Regular Price 75c

Price 75c

1/8 Long Standard 1/2 In. Long Standard Price 75c

PRIMING



1/2 In.-H-14 % In.-H-44

We give a partial list of cars the above Chan ipion Plugs are adapted for:

NO. 1 and 2 Star Durant 6 Lexington Locomobile Overland 6 Studebaker,

Special 6 NO. 3 Chalmers Dodge Bros. Hudson Hupmobile Jewett. Maxwell Lincoln Kissel Liberty Rolling

Oldsmobile 8 Stutz 6 Willys Packard Peerless Knight Pierce Arrow Ranger Roamer Cadillac

Rolls-Royce A 6 & V. Chalmers Knight Chrysler Cleveland Standard 8 White Wills Ste Crawford Claire Winton from '20

NO.5 Buick to 8-1-23 For Trucks, Tractors, Motorcycles, Farm, Stationary, Marine and Lighting Engines, write for list. A Champion for every service.

Chevrolet Marmon Oakland 6-24 Stutz D. D. Winton to '20

NO.6 Buick from 8-1-23 Durant 4 Kessler Mercer 4 Oakland Oldsmobile 4 Oldsmobile 6 Stearns Knight Light 6

A-105 A-204 A-104

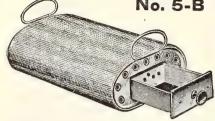
CHAMPION CORES Gaskets Turnished

List Core Plug Type A-104 No. 1, A74 No. 8, A64...\$0.40 A-105 X-A1530 A-205 X Long.-A25. No. 3, No. 4 No. 5, No. 6 A-204 -40 .40 B-103 B-4340 H-104 H-14. H-44... .40 Extra Gaskets 4c each.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTTEE

Automobile and Carriage Heaters

No. 5-B



Strong, Ornamental, Convenient.

No. 5B — Clark Heater, 12 inches long, otherwise same as 3D, except carpet is not braid-bound. Weight, 4 lbs. Price,

No. 3-D



No. 3D—Clark Heater 14 inches long, sheet metal case, stamped white metal ends, covering of braid-bound Brussels carpet. Weight, 7 lbs. Price, \$4.00.

No. 7-C



No. 7C—Clark Heater, 14 inches long nickel-plated steel ends, heav-ily reinforced, covered with Brussels carpet, slanting top, adjust-able side and end ven-tilators. Can be regu-lated so as to increase

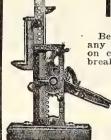
diminish the heat or entirely stop combustion and save al for future use. Weight, 7 lbs. **Price, \$4.00.**

PREPARED COAL



One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of one doz. cakes, \$1.20. 100 Bricks in Wood Case, \$9.50.

Acme Dump Wagon



Improved Sampson Jack

Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

No. 1—Will raise vehicles weighing 2

tons

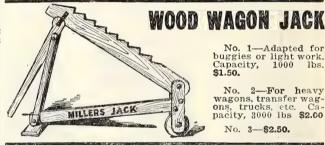
BELL BOTTOM JACK SCREWS

These Jack Screws have cast-iron stands, with forged head screws. For workmanship and durability they cannot be excelled.

Our

ILY U	tey ca	unnot be e		Our
	ım.	Height		Special
Scr	ew	Stand		Price
	in.	12 in.	15 in.	\$4.00
1 1/2	in.	14 in.	17 in.	4.50
1 1/2	in.	16 in.	19 in.	5.10
2	in.	10 in.	14 in.	5.10
2	in.	12 in.	16 in.	5.65
222222	in.	14 in.	18 in.	6.20
2	in.	16 in.	20 in.	7.00
2	in.	18 in.	22 in.	7.70
2	in.	20 in.		
apacit	y 11/2	2-in. diam	eter screw,	10 tons.

Capacity 2-in diameter screw, 12 tons.
Other sizes. Prices on Application.



No. 1—Adapted for buggies or light work. Capacity, 1000 lbs. \$1.50.

No. 2—For heavy wagons, transfer wag-ons, trucks, etc. Ca-pacity, 3000 lbs \$2.00

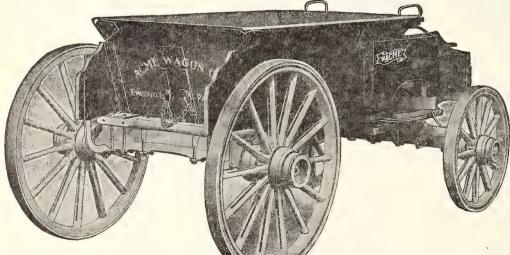
No. 3-\$2.50.

AUTOMOBILE JACK

This Jack is made from best quality refined malleable iron, with high-grade Steel Screw, aluminum finish, and by single turn of the pawl raises or lowers. It is compact, neat and has sufficient strength to raise any automobile made.

Height, Lowered, Inches. No. Pounds. Raises, Inches. Wgt., Lbs. Price. Each. 2000





Unequalled for strength, efficiency, durability and ease of operation. The doors overlap each other, thus making it sand-tight.

Heavy steel plates on outside of body over wheel house, making it very strong, and making it practically unbreakable at this point.

With Brake, 3-in. Tires. 1½-Yd. Wagon.... \$235.00

42

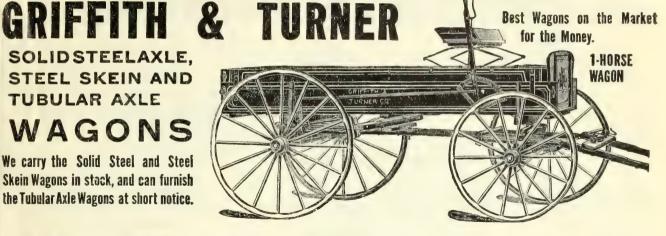
H



SOLIDSTEELAXLE. STEEL SKEIN AND TUBULAR AXLE

WAGONS

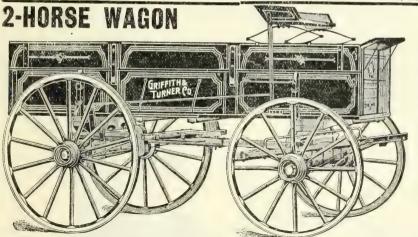
We carry the Solid Steel and Steel Skein Wagons in stock, and can furnish the Tubular Axle Wagons at short notice.



Size of St'I Axio	Size of Tubular Axie	Size of Tires	Height Front Ft. in.	Wheels Rear Ft. In.	Len	nensions of gth Width E in. Ft. in, I	depth	Weight	Capacity	Wagon Cor No Bra List		Wagon C With Bi List	Gears With Br		Only Fakes Retail
11/4	1 1 1 1 1 1 1 1 1	1 1/4 x 5 - 1	6 3 2	3 8	9 (3 2	9 4	500	1000 to 120	0 \$137.24			 		
							No.	40 O	NE-HORSE	WAGON	₹.				

Size of Height Wheels Dimensions of Body Wagon Complete Wagon Comple Gears Only Nos. St'l Tubular Gears Only Rear Length Width Depth No Brakes List Retail Front Weight With Brake st Retail With Brakes List Retail Axfe Tires No Brakes Azle List Dotell 1% |1% x5-16| 3 2 3 8 | 9 0 3 2 10 4 | 650 | 1500 to 1800 | \$150.74 \$90.50 | \$164.24 \$98.55 \$136.74 \$80.00 \$119.24 \$71.55

For G. & T. One-Horse and No. 40 Wagons with 2-inch tires, add List, \$9.00; Retail, \$5.40. For G. & T. One-Horse and No. 40 Wagons with tongue instead of shafts, add List, \$11.25; Retail, \$6.75.



THESE WAGONS ARE HEAVILY IRON AND BRACED. THEY ARE MADE OF THE BEST MATERIAL THROUGH-OUT. THE WHEELS ARE DIPPED IN BOILING OIL. HAVE ROUND EDGE TIRES, WHICH PROTECT THE FELLOES AND PAINT. THEY ARE VERY LIGHT RUNNING.

FOR TIRES OF EXTRA WIDTH AND THICKNESS, ADD THE FOLLOWING AMOUNTS TO WAGON PRICES BELOW:

For tires wider than regular on Nos. 42, 44 and 46, add List, \$13.50; Retail, \$8.10 per inch or fractional part thereof. On Nos. 48, 50 and 52, add List, \$18.00; Retail, \$10.80 per inch or fractional part thereof.

For tires thicker than regular, add List, \$11.24; Retail, \$6.75, for every ½ inch additional thickness on 3 inches wide and upwards.

Size of Size of Size of Size of Tub lar Tires	Height Wheels Front Rear Ft. in. Ft. in.	Dimensions of Body Length Wisth Depth Wo Ft. In. Ft. In. In. In.	leight Capacity	Wagon Complete No Brakes List Retail	Wagon Complete With Brakes L'st Retail	Gears Only With Brakes List Retail	Gears Only No Brakes List Retail
42 1 ½ 1 ½ x 813 % x7-16 44 1 % 2 ½ x 812 x ½ 46 1 % 12 % x 912 x ½ 48 2 2 % x 10 2 x % 50 2 ½ 1 2 % x 13 x 3 x 52 2 ½ 3 ½ x 12 3 x %	3 8 4 0 3 8 4 0	$\begin{bmatrix} 10 & 6 & 3 & 6 & 12 & 6 \\ 10 & 6 & 3 & 6 & 12 & 8 \\ 10 & 6 & 3 & 6 & 14 & 8 \end{bmatrix} \begin{array}{c} 10 & 6 & 3 & 6 & 12 & 8 \\ 10 & 6 & 3 & 6 & 14 & 8 \end{array}$		227.24 136.35 252.00 151.20 274.50 164.70	249.74 149.85 270.00 162.00 292.50 176.50	204.50 122.70 229.50 137.70 257.50 149.50 270.00 162.00	186.74 112.00 211.50 126.90 229.50 137.70 252.00 151.20

Nos.	Size of Axles	Size of Tires	Fro	nt	Whee Rea Ft.	II.	Leng	h V	Vidth	Body Depti In, in	Weigh	1	Сара	city		Complete Brakes Retail	With	Complete Brakes Retail		s Only Brakes Retail	Gears No B	
1	2 34 x 8 1/2	2x 3/8	13	2	3	8	9 (3	6	12 6	800	12000	to	2500	\$223.74	133.75	\$240.74	144.45	\$202.50	121.50	\$184.50	\$110.70
2	3 x 9	2x 12	3	6	4	0	10 (3	6 :	12 6												118.80
3	3 1/4 x 10	2 x 5/8	3	6	4	0	10 €	3	6 1	12 6												133.75
4	3 1/2 x 11	$2 \times \frac{3}{4}$	3	6	4	0	10 €	3	6 1	2 8	1400	4000	to	5000					259.74	155.35	240.74	144.45

					E	XTRA	s For	G. &	T. W.	AGONS	5.						
		Special Or	10-Horse	No. 4	9	No. 4	12	No. 4	14	No. 4	6	No.	18	No. 5	0	No. 5	2
		List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retall	£is†	Retail	List	Retail
Bodies		.\$40.50	\$24.50	\$40.05	\$24.50	\$47.24	\$28.50	\$47.24	\$28.50	\$49.50	\$29.75	\$54.00	\$32.50	\$67.50	\$40.50		
Spring	Seat	. 9.00	5.40	9.00	5.40	9.00	5.40	9.00	5.40	9.00	5.40	9.00	5.40	9.00	5.40		
Tongues	S	. 18.00	10.80	18.00	10.80												
	Reg., per se																
Solid S	teel Axles.	. 11.24	6.75	12.10	7.05	10.20	5 00	16.40	9.75	19.42	11.75	23.92	14.50	27.30	16.50		





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On

THREE SPRING DELIVERY WAGON



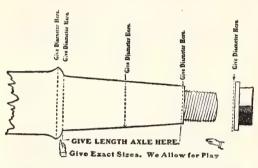
Wagon Height Wheels Body
Front Rear L'gth Width Depth
Ft In Ft In Ft In In W'ght Cap List Complete Steel Axle Tires Retail

 1½|1½x5-16|
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 7
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 1

Duplex Spring Delivery Wagon similar to above, except it has a duplex spring gear.

Size Height Wheels Body Complete
Steel Front Rear L'gth Width Depth No Brakes
Axle Tires Ft In Ft In Ft In In W'ght Cap List Retail
1\(\frac{1}{8}\) 1\(\frac{1}{8}\) x 5 - 16\ 3 3 3 8 \ 7 0 3 1 9 \ 500 \ 1000 \ 163.20 \ 96.00 \
Brake for aboveList, \$13.50; Retail, \$ 8.10
Tops for aboveList, 63.00; Retail, 37.80

METAL TRUCK WHEELS



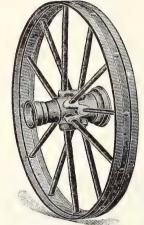


Diagram Showing How To Measure Your Skeins.

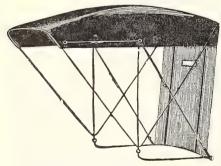
As nearly every set of steel wheels we sell has to be made especially to correspond with measurements of axles for which it is intended, we generally make shipment direct from factory.

PRICES PER WHEEL WITH 4x% TIRES.

24-inch—Our	Special	Price\$6.60
26-inch—-Our	Special	P11ce
28-inenour	Special	Price
30-inch—Our	Special	Price
32-inch—Our	Special	Price
36-inch—Our	Special	Price 8.80
36-inch—Our	Special	Price

For $4x\frac{1}{2}$ Tire, prices on application. Wood Wheels, prices on application. Prices on other sizes quoted on application.

BUGGY TOPS



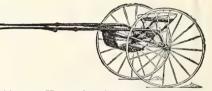
Drill Top, lined with nice union cloth. Tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, does not show nails or tacks. Will keep in shape. Side Curtains are included, making top complete. Retail \$20.00

Rubber Top, cloth lined, tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. Retail, ...\$24.00

WAGON CUSHION

Black Enameled Drill, 20 to 34 inches long, stitched edge.

HEAVY STUDEBAKER ROAD CART



No. 178 Heavy Road Cart has two-passenger slat seat, slat foot-rack, 1-inch double collar steel axle, %-inch wheels, 46 inches high, and hickory shafts. Shipping weight, 125 pounds List Price, \$50.00. Our Special Price, \$32.00.

LIGHT ROAD CART

No. 4½ Light Road Cart has low seat support, two-passenger slat seat spring hung in swinging shackles, %-inch wheels, 46 inches high, 1-inch double collar steel axle and hickory shafts. Shipping weight, 125 pounds. List Price, \$48.00. Our Special Price, \$30.00.

BUGGY



DESCRIPTION.

Gear—Arched Axle, Four plate graded and tempered springs, Reaches ironed full length. Wheels—Best grade split hickory, % or % inch tread.

Shafts—XXX Hickory, ironed to heel, 36 inch genuine leather points.

Body—Piano, with high panel back seat.

Trimmings—Soft leather throughout.

Painting—Body and seat black, gear red or black

black. **Top**—Leather Quarter.

PRICE\$125.00

Cheaper Buggy with Art Leather Trimmings



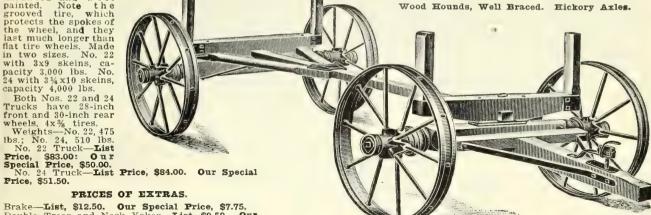
OUR HANDY STEEL WHEEL FARM TRUCKS

hardwood and well painted. Note the grooved tire, which protects the spokes of protects the spokes of the wheel, and they last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, ca-pacity 3,000 lbs. No. 24 with 34x10 skeins, caracity 4,000 lbs.

capacity 4,000 lbs.

Both Nos. 22 and 24

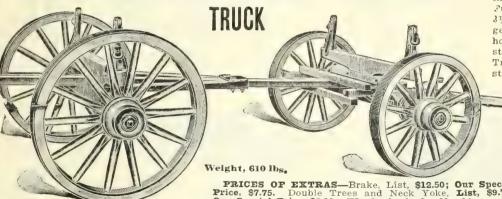
Trucks have 28-inch Trucks front and 30-inch rear



PRICES OF EXTRAS.

Brake—List, \$12.50. Our Special Price, \$7.75.
Double Trees and Neck Yokes—List, \$9.50. Our Special Price, \$6.00. Shafts—List, \$14.50. Our Special Price, \$8.25.

OUR NO. 34 LOW-DOWN WOOD WHEEL FARM



PRICES OF EXTRAS—Brake, List, \$12.50; Our Special Price, \$7.75. Double Trees and Neck Yoke, List, \$9.75; Our Special Price, \$6.00. Wood wheels for No. 34, per set of 4, List Price, \$96.00; Our Special Price, \$55.00.

This truck has low-down wood wheels 32 and 36 inches in height, with 4-inch tires. Furnished with hickory axles. 31/4 x10-inch skeins, hardwood gear parts; both front and rear hounds, and has regular wagon standards, ironed and ringed. Truck nicely painted and striped. Capacity 4000 lbs.

With 3-inch tires-

List Price. Our Price.

\$126.00 \$77.00

With 4-inch tires-List Price, Our Price, \$137.50 \$82.50

3x9—Skein Wagon, 3-in tires \$75.00.

3x9-Skein Wagon 4-in. tires \$80.00.

THE OLD DOMINION WAGON

31 x 10-inch hickory axle, woodwheels, 36-in. front. 42-in. rear, 3 x3-intire. A serviceable wagon at a low price.

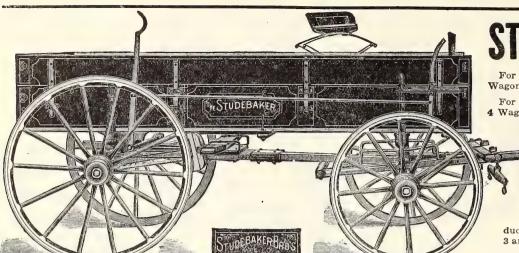
Weight, 675 Lbs.

List Price, Our Price,

PRICES OF EXTRAS-1/2 Brake, List, \$12.50. Our Special Price, \$7.75.







For Steel Skeins on No. Wagons; add to Retail, \$8.00.

For Steel Skeins on No 4 Wagons; add to Retail, \$9.00.

> If WAGONS are wanted without brake, deduct on No. 2, \$7.25. On Nos. 3 and 4, deduct \$7.65. On No. 5, deduct \$8.10. If GEARS are wanted without brake, de-

> > STI

No.

duct for No. 2 \$6.30. For Nos. 3 and 4 \$6.75. For No. 5 \$7.25.

Inches Ft. In. Ft. In. Inches In. In. Ft. In. Lbs.	Lbs. Retail Price Retail Price
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2000 \$139.50 \$109.80 2000 144.00 117.00 2000 150.30 121.50 3000 146.70 115.20 3000 150.30 121.50 3000 158.40 123.75 3000 166.50 137.25 4000 157.50 124.00 4000 157.50 124.00 4000 157.50 126.00 4000 157.50 126.00 4500 161.10 131.40 4500 163.80 135.00

RURAL TEAM TRUCK WITH DROP TONGUE.

Front Wheel. Rear Wheel. No. 4151/4-31/4x10-in. Cast Skeins 30 inches

Tires Gear Only, No Brake Drop Tongue 4 x % in., wood wheels. 36 inches \$83.25

1½ inches. 3 inches. 4 ft. 8 in.

FARM AND CONTRACTOR'S CARTS

With 5 and 6-inch Tires and extra heavy Contractors' Carte made specially to order when wanted.

These Carts are very strong, heavily ironed nicely painted,

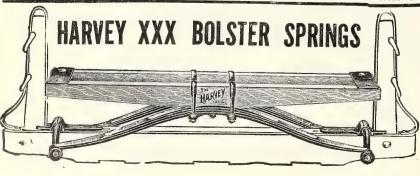
striped and varnished. Our Spe-cial Price \$ 78.30 List

\$130.56

		_	THEHED.	4 inches.	4 ft. 8 in.	List Price, I Per Pair.	Ret'l Price.
The Labor	entidito. T	$\frac{1\frac{1}{2}}{2}$	inches.	4 inches.	4 ft. 8 in. 4 ft. 8 in.	146.24 150.74	87.75 90.55

THE CONTINUOUS OF THE PROPERTY	I CI I com.	I CI I dil.
For Farm Cart, 11/2-inch axle, 3-inch tire	\$54.56	\$33.75
For Farm Cart, 1½-inch axle, 4-inch tire		39.15
For Contractors' Carts, 2-inch axle, 3-inch tire	66.94	40.25
For Contractors' Carts, 2-inch axle, 4-inch tire	75.94	45.65

List Price. Ret'l	Price.
Shafts for 1½ or 2-in. Axle Farm Cart, no irons, per pair\$15.18	\$9.10
Shafts for 1½ or 2-in. Axle Farm Cart, with irons 22.56	14.00
Axles for 1½-inch Axle Farm Cart	10.50
Axles for 2-inch Contractors' Cart	14.25
Bodies for Farm Cart	36.50
Bodies for Contractors' Cart	36.50

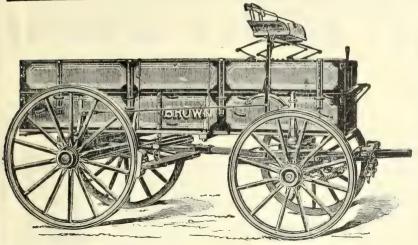


These springs are made from select steel, tempered under the manufacturers' personal supervision. Twenty years' experience back of every Harvey Bolster Spring. They raise the box but a few inches, which decreases as the load is increased. The only spring that can be completely shut down without crushing.

Capacity	42-inch	Capacity	
1500		5000	
$2500\ldots$			24.50
3000		8000	
4000	19.75	10000	32.25

GRIFFITH @ TURNER CO.





Height of Rear

Wheels.

31911

3/8//

3'8"

3/8"

3'8"

3'8"

3/8//

3'8"

Size of

2 1/2 x 1/2

2½x½ 3 x½ 2½x½ 3 x½ 2½x½ 4 x½ 2½x¾

2 x % x %

Height of

Front

Wheels.

3/4//

3/4//

3'4"

3/4/1 3/4//

3/4//

3/4//

BROWN AGO

Axles are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerking and switching of the tongue, and eases the draft on the horses' necks. Wheels all positively soaked in hot oil. Tires never get loose. Write for special circular fully describing these Wagons.

these Wagons.

Coil springs are applied to tongue—easer draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

3	116	CI	7 A	UB	e.	
			TAZ	20	on.	

	Wagon	
ity, is.	Complete with Brake.	Gear only with Brake.
	Price.	Price.
)	\$156.7 5	\$120.65
1	161.80	125.70
1	159.50	123.30
,	164.60	128.50
1	165.10	127.15
)	170.30	132.40
+	181.30	144.60
)	178.70	140.75
)	189.50	146.90
	197.10	159.15

All of above Complete Wagons have Seats and Gear Brakes.

Pollowing Special Gears have Linch Pin Steel Skeins, Gear Brakes, and Nos. 3, 4 and 5 have Side and Back Action Brakes with

	Mound Coupling	Poles:				
2	3 1/4 x 10	3/8//	4/4//	4 x 5%	 4500	 \$173.75
3	3 ½ x11	3/8//	4'4"	4 x 3/4	 55 00	 202.10
4	3 % x12	3/8//	4/4//	4 x %	 6500	 231.10
5	4 x12	3/8//	4/4//	4 x1	 7500	 247.50

6.00

Depth of

Box.

20"

20//

22"

2211 24"

24"

26"

26//

26"

Capaci

Pound

4000

4000

4500

4500 4500

Patent Steel Skeins

Size of

Cast Skein.

No.

000

000

00

0.0

2 ½ x 8 2 ½ x 8 2 ½ x 8 2 ½ x 8 ½ 2 ¼ x 8 ½ 3 x 9 x 9

3 x 9 3 4 x 10 3 4 x 10 3 4 x 10

Revised Price List PATENT SKEINS



Skeins with Boxes, per Set.				
87-		With Nuts.	Boxes Only, per Set	
No.	Size.	Price.	Price.	
Z	2 ½ x 8"	\$15.70	\$2.80	
3	2 3/4 x 8"	16.25	3.20	
2 3 6 9	3 x 9"	17.60	3.50	
9	3½ x10"	20.35	4.00	
	3½x11"	23.10	4,50	
14	3 3/4 x 12"	27.50	5.00	
15	4 x12"	31.90	6.00	
17	4 ½ x13"	47.85	8.00	
		With Linch Pi	ns.	
		Price.		
21	3 1/4 x 10"	\$20.35	\$4.00	
23	3½x11"	23.10	4,50	
25	3 ¾ x12"	27.50	5.00	
26	4 x12"	31.90	6.00	

Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

STEEL SKEINS FOR PETER SCHUTTLER WAGONS.

	Skein Only	
	with Nut or Linch Pin,	Box Only,
	no Box, each.	each.
3½ x10"	\$ 5.5 0	\$1,25
3½x11"	6.60	1.50
3 % x12"	7.15	2.00
4 x12"	8.25	2.25
4 1/4 x 12"	9.00	2.75
4½ x13"	12.40	3.30

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

S. B. Trade



All sizes, from $2\frac{1}{2}x8$ to 4x12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins.

		Cast Skeins, with Boxes.	Boxes Only,
		Our Special Price.	Our Special Price.
		Per Set.	Per Set.
9	2½ x 8"	\$6.30	\$2.50
10	2 3/4 × 8"	6.85	2.70
13	3 x 9"	7.75	3.00
16	$3\frac{1}{4} \times 10''$	9.35	4.00
19	3 ½ x11"	11.00	4.50
22	3 % x12"	11.85	5.00
23	4 x12"	13.75	6.00

D. V. TRADE SKEINS FOR STEEL WHEEL TRUCK

	Skeins With Boxes.	Boxes Only.
	Set.	Set.
3×9	\$7.75	\$3.00
3 1/4 x 10	9.35	4.00

PATENT TRUSS CAST SKEINS AND BOXES FOR STUDEBAKER WAGONS. Our

				Special Price.
				set \$8.00
No. 4-Size,	23/4 x 8";	with nuts	, per	set 9.00
No. 5-Size,	3 x 9";	with nuts	, per	set 10.00
No. 6-Size,	3 14 x 10";	with nuts	, per	set 12.00
No. 7-Size,	$3\frac{1}{2} \times 11''$;	with nuts	, per	set 13.50

CAST AND STEEL SKEINS FOR BROWN WAGONS.

											Each.
2 3/4 11	Cast Si	keins,	pat.	extension	for	bolt	or	clip,	no	box	 \$2.40
3"	Cast S	keins,	pat.	extension	for	bolt	or	clip,	no	box	 2.75
3 1/4 "	Cast S	keins,	pat.	extension	for	bolt	or	clip.	no	box	 3,00
31/2/	Steel S	skeins	, lon	g sleeve,	no	box.					 6.50
3 3/4 11	Steel S	skeins	, long	g sleeve,	no	box.					 7.65
4.11	Steel S	Skeins	lone	z gleeve	22.0	hov					9,00



GRITCO

STANDARD

SAFETY FIRST SPRUCE

We carry a complete line of ladders for every purpose

GRITCO

WITH AUTOMATIC HOOKS

SUPERIOR LUMBER: (Spruce).

The sides or rails are made from light, clear selected stock, bored mechanically correct for rounds and measure 1% x2% inches finished, both top and bottom sections. All 18, 20 and 22 bottom sections have 1%x3 inches.

RUNGS: (Hickory. Creosoted Ends).

Clear, second growth, straight grained HICKORY, smoothly finished to 11/3 inches in diameter, and 12 inches apart. CASTINGS:

Top guides made from wrought forgings with roller guides. This allows top section to be extended freely.

AUTOMATIC HOOKS: (Put on all our Extension Ladders).

Are made from soft malleable iron, self-balancing, simple in construction and work automatically. All castings are galvanized.

LENGTH OF SECTIONS

		1 1
20-ft. Extension—Top Section, 10 ft.; Bottom Section, 10 ft	817.00	24-ft.
24-ft. Extension—Top Section, 12		26-ft.
ft.; Bottom Section, 12 ft 26-ft. Extension—Top Section, 12	13.20	f
ft.; Bottom Section, 14 ft 28-ft. Extension—Top Section, 14	14.30	28-ft. f
ft.; Bottom Section 14 ft	15.40	30-ft.
30-ft. Extension—Top Section, 14 ft.; Bottom Section, 16 ft	16.50	32-ft.
32-ft. Extension—Top Section, 16 ft.; Bottom Section, 16 ft	17.60	f
36-ft. Extension-Top Section, 18		36-ft. ft
ft.; Bottom Section, 18 ft 40-ft. Extension—Top Section, 20	19.80	40-ft.
ft.; Bottom Section, 20 ft 44-ft. Extension—Top Section, 22	26.00	ft 42-ft.
ft.; Bottom Section, 22 ft	30.80	ft
48-ft Extension—Top Section, 24 ft.; Bottom Section, 24 ft	33.60	44-ft. ft
	CAF	חוח
	ITHUC	VLU

More people are injured by defective ladders than any other implement sold with the exception of automobiles.

not overload or use a ladder for any other purpose than which it was intended to be used.

Do not try to economize on buying cheap ladders as they are very dangerous. Buy the very best that can be had as your life is worth more than the price of several carloads.

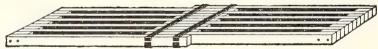
Our ladders are equipped with the very latest improvements and manufactured from strictly first class material. We use modern machinery and employ skilled workmen.

LENGTH OF SECTIONS

20-ft. Extension-Top Section, 10	
ft.; Bottom Section, 10 ft	9.00
22-ft. Extension-Top Section, 10	,
ft.; Bottom Section, 12 ft	9.90
24-ft. Extension-Top Section, 12	
ft.; Bottom Section, 12 ft	10.80
26-ft. Extension-Top Section, 12	•
ft.; Bottom Section, 14 ft	11.70
28-ft. Extension-Top Section, 14	
ft.; Bottom Section, 14 ft	12.60
30-ft. Extension-Top Section, 14	
ft.; Bottom Section, 16 ft	13.50
32-ft. Extension-Top Section, 16	
ft.; Bottom Section, 16 ft	
36-ft. Extension—Top Section, 18	
ft.; Bottom Section, 18 ft	
40-ft. Extension—Top Section, 20	10.02
ft.; Bottom Section, 20 ft	10 00
	10.00
42-ft. Extension—Top Section, 20	00.00
ft.; Bottom Section, 22 ft	22.00
44-ft. Extension—Top Section, 22	00 50
ft.; Bottom Section, 22 ft	25.76



Our Painters' Scaffolds are made from seasoned and selected stock. form. Our scaffolds are light in weight, 16-18, 20 and 22 ft., without floor, per ft.,



These adjustable Plangs are used by Painters and Decorators and are now art of their equipment. We can furnish Extension Planks in three sections in

These adjustable Plangs a part of their equipment. in 8 and 10-foot lengths. 6-foot, extends to 10 feet . . 8-foot, extends to 14 feet 10-foot, extends to 18 feet . . 7.00 8.50

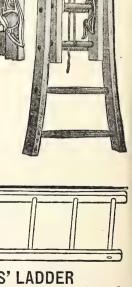
GRITCO SINGLE LADDERS

10, 12, 14, 16 Foot............\$.42 per foot. .47 per foot. 18, 20, 22 Foot



MASON OR BRICKLAYERS' LADDER

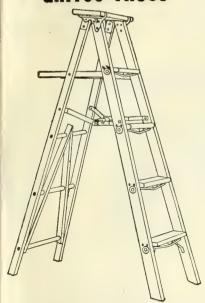
Made from clear, selected stock, carefully bored. Rounds made from Hickory properly spaced for easy climbing.



GRIFFITH @ TURNER CO



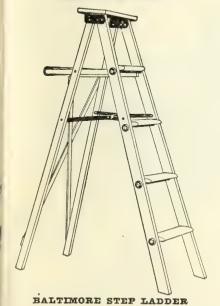
GRITCO TRUSS



The GRITCO TRUSS STEP with 1/2-in. rod and truss block under each step with malleable iron washers, wood handle, four arm steel lock, malleable ears, wide cap and steps, dowel in the back legs opposite each step, solid risers made from Genuine Spruce.

4	ft \$2.80	8 ft
5	ft 3.50	10 ft 7.00
6	ft 4.20	12 ft 8.40
7	ft 4.90	

BALTIMORE



Full Rodded, Steel Lock with Handle.

3	ft	\$1.05	7	ft\$2,45
	ft			ft 2.80
	ft			ft 3.50
6	ft			

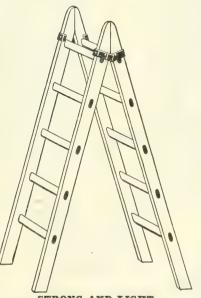
GRITCO SECURITY



GRITCO STEP is standard built, 4-inch rod under every step, non-slip washers, wood handle, four arm lock, galvanized double ear, dowels in the back opposite each step.

4	ft	٠				\$2.60	8	ft.						\$5.20
						3.25								6.50
						3.90								8.40
7	ft	٠	٠		۰	4.55	14	ft.	0	0		۰	0	9.80

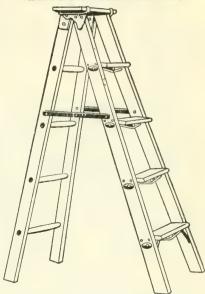
GRITCO PAINTERS' **TRESTLES**



STRONG AND LIGHT Made in all sizes, from 6 feet to 12 Pair

\$10.00 13.25 16.50 10-ft. 12-ft. 22.00

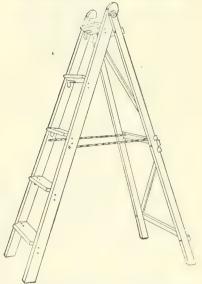
GRITCO ELECTRIC



The GRITCO ELECTRIC is our very latest design and is intended for heavy work. It is made from selected SPRUCE, has wide steps, steel lock, malleable ears, truss block and is full rodded. Has reinforced back legs with ¼-inch bolts and 1¼-inch HICKORY Rungs, so that ladder can be used on sither ride.

either side.			
4 ft\$	4.00 12	ft	\$12.60
5 ft	5.00 14	ft	14.70
6 ft	6.00 16	ft	17.20
7 ft'	7.00 18	ft	21.60
8 ft	8.00 20	ft	24.00
10 ft 1	0.00		

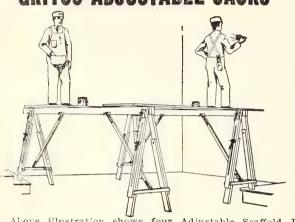
GRITCO DECORATORS



This ladder is for paper hangers, painters and interior decorators,
Made of Spruce material, approved

S	peci	fic	a	t	i()]	n.s	3.							
4	ft.						. 1	\$2.60	10	ft.			,	. \$	6.50
5	ft.							3.25	12	ft.					8.40
6	ft.							3.90	14	ft.					9.80
7	ft.							4.55	16	ft.					11.20
0	4+							5.20							

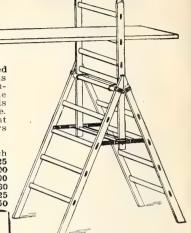
GRITCO ADJUSTABLE JACKS



GRITCO EXTENSION

Extension Trestles manufactured Extension Trestles manufactured from selected stock, made in lengths from 6 to 16 feet. This is exclusive of the extension part. The extension part of each trestle is the same length as the trestle. These ladders are very convenient for interior work. Hickory Bars or Punes. or Rungs.

	فتك	TITHSIOI			علد للدنان	243
						Each
6	ft.	extending	to	10	f'	. \$11.25
8	ft.	extending	to	14	ft	. 14.00
10	ft.	extending	to	18	ft	. 16.00
12	ft.	extending	to	22	ft	. 19.60
14	ft.	extending	to	24	ft	. 25.25
16	ft.	extending	to	26	ft	. 31.50



Above illustration shows four Adjustable Scaffold Jacks

ready for use.

It requires Four Jacks to properly scaffold a room, on which Planks can be laid, thus giving a safe platform to

which Planks can be laid, thus giving work on.

These Jacks are made in various sizes from 3½ ft. to 20 ft. Each size can be quickly adjusted to various heights. These Jacks are so constructed that they can be assembled ready for a job in five minutes and when the work is finished, they can be folded up thus requiring very little space and take a very low freight rate in shipping.

The legs of the Jacks are made out of ½x4 and 2x4 Clear Straight Grain Spruce. The Hardware consists of malleables, steel stampings, and heavy bolts and rivets to stand real hard usage. Jacks that are 8 ft, and longer are made with reinforced braces and supports.

minforced braces and supports.	_
ADJUSTABLE SCAFFOLD JACKS	
No. Length of Jacks Price Ea.	
3 4 ft. extend to 6 ft\$6.50	
3½ 5 ft. extend to 8 ft 7.50	
4 6 ft. extend to 9 1/2 ft 8.25	
5 8 ft. extend to 13 ft 11.00	
6 10 ft. extend to 16 ft16.25	
7 12 ft. extend to 20 ft19.75	
Adjustable Scaffold Jack Iron	
Brackets, set of four 4.20	



very con-ent ladder A Viery convenient ladder for window cleaning purposes or where a ladder has to be carried from one place to an-

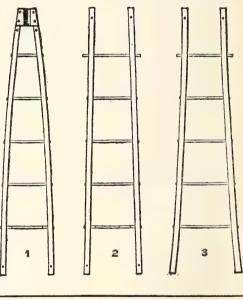
one place to an-other. It is made in sections, which makes it con-venient to han-

All sections are fitted into each other.

These ladders are made in 6-foot lengths. \$2.50

This old reliable This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached.

Trice 18.50



GRITCO SECTIONAL LADDERS

Made in 6-ft. made in ort. sections, each end protected with iron plates, and equipped with large bolts with thumb nuts, making them safe and durable. able

Hickory Rungs. Sections 6 ft. 5 in. \$3.50

Wade in Two Sizes

inches\$10.00

No. 1-4 foot, 4-

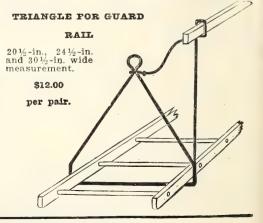
GUTTER HOOKS

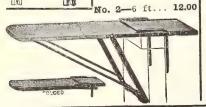
For Hanging Swing-ing Stages or can be used for many other strong purposes, durable. Per Pair \$7.00.



TRIANGLE

24½-in. and 30½-in. wide, inside measurement. \$8.00 per pair.







No. 400—All Steel Gear, Wood Body, 36" x 15" Rubber Tired Disc Wheels, Roller Bearing. No. 419—16x38 Removable Body, 10 in. Rubber Tired Wheels, Ball Bearing. No. 420—18x40 Removable Body, 12 in. Rubber Tired Wheels, Ball Bearing. No. 404A—14x34 Body, 8 in. Rubber Tired Wheels, Ball \$11.00

No. 404A—14x34 Body, 8 in. Rubber Tired Wheels, Ball Bearing
No. 19—16x38 Removable Body, 11 in. Spoke Wheels, Roller Bearing.

No. 20—18x40 Removable Body, 12 in. Spoke Wheels, Roller Bearing.

All sizes are fitted with smooth, cold-rolled steel axles rigidly fastened to gear. The wheels are the latest type of Disc or Artillery style, nicely enameled and are fitted with nickel plated hub caps.

They have heavy, strong King Bolts and strong, wellbraced draw irons, making them a real wagon.

THE VACUUM TANK MATERER WATERER ME TO

Nos. 3, 4, 5 and 6. The simplest and most efficient Hog Waterer that can be built. Made of corrugated, galvanized steel, giving it strength to stand the hard knocks which hogs will give it.

steel, giving it strength to stand the limit will give it.

Tank is reinforced with heavy strap iron braces. A full bottom in the casing makes a lamp chamber that cannot be disturbed by the rooting of the hogs, and also permits a center support of the inner tank.

No. 3—15-Gallon.....\$20.00

No. 5—Fitted with two Drinking Troughs...\$35.00

No. 5—60-Gallon......\$30.00

No. 6—100-Gallon......\$40.00 Ideal Waterer for Poultry, 5 gallons.

. \$6.50

IDEAL HOG FEEDERS

No. 12-8	to 10 bu	shels		 \$27.50
No. 14-18	bushels	5		 37.50
Extension	Tops, 12	bushels	3	 6.50
Hopper for	Tankage	e. 2 1/2 b	ushels	 4.50

GRITCO WAGONS

Entire wagon made of selected hardwood. Construction closely follows that of regular farm wagon, having bent hounds and adjustable reach. All parts heavily braced and ironed.



	List.	Price.
Acme Jr. Wagon, with pole	.\$20.00	\$12.50
Shafts	. 2.50	1.50
Wheels	2.30	1.35

THE GRITCO HOG OILER SIMPLE IN CONSTRUCTION.



same time.

As soon as the hog starts to rub on the bar this will open the feed allowing the oil to run down the bar placing oil on the infected part. The bars are held firmly in place by guiders and the opening which gauges the feed is governed by a spring, which prevents all possible chance for waste of oil.

There is nothing to break or get out of order. This machine will last a life time.

DON'T TAKE CHANCES.

For years the successful hog raisers have been looking for an Oiler that would work perfectly. There have been a large number of Hog Oilers placed on the market, each and every one has its merits, while at the same time there are with a great many of them a host of disadvantages which the manufacturers cannot avoid.

In considering the advisability purchasing the GRITCO HOG OILER we want you to feel perfectly satisfied before placing your order that you are giving your patronage with the right concern,

made of Cast Iron—weighs 45 Pounds.

and that you are buying an article that is thoroughly reliable, desire any further information we respectfully solicit your inquiry for such and your request shall have our immediate attention. PRICE OF HOG OILER COMPLETE....\$10.00

SPECIAL OIL FOR HOG OILERS. s\$4.50 10-Gallon Cans on Cans\$4.50 10-Gallon Cans\$8.00 Barrels, 50 gallons, per gallon........50 cents. 5-Gallon Cans

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE



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CERTAIN-TEED ROOFING



When you want a smooth surfaced Roofing for your House, Barn, Garage, Factory, Warehouse, Sky-scraper, Church, Apartment Building, or Farm Building, get

CERTAIN-TEED

—guaranteed 5, 10 or 15 years for No. 1, 2 or 3 respectively—backed by the responsibility of the World's greatest and biggest Roofing and Building Mills. The Certainteed label on this Roofing stands for a definite guaranteed service—a protection for you. Why try to save a dollar or two by putting on a cheap Roof that is not guaranteed when you can buy Certain-teed for just a little more money and get much longer service on your Roof. In the long run it's less expensive to buy Certain-teed.

No.	1,	108	square	feet.	 	 		\$1.20
No.	2,	108	square	feet.	 	 		1.70
No.	3,	108	square	feet.	 	 	 	2.20
No.	4 1	.08 s	quare fe	eet	 	 	 	2.70



GUARD ROOFING

GUARD (Special Quality)

This roofing is offered as a good average quality product. It will give good service on the roof. Where the highest quality roofing is not necessary this product is recommended. No. 1-Light, about 35 lbs., per square. \$1.15 No. 2-Medium, about 45 lbs., per square 1.50 No. 3-Heavy, about 55 lbs., per square.

CORPORAL (Competition Quality)

Not a quality product.

Made to meet price competition. Should be sold only where price is the principal consid-

No. 1—Light, about 35 lbs., per square... No. 2-Medium, about 45 lbs., per square. 1.20 No. 3-Heavy, about 55 lbs., per square...

Slatesurfaced Roll Roofing CERTAIN-TEED EXTRA QUALITY

BLUE-BLACK, RED, OR GREEN Weight, 90 lbs., Guaranteed 10 Years, per Square....

Major Regular Quality

BLUE-BLACK, RED, OR GREEN

Weight, 80 lbs., Guaranteed 8 Years, per Square..... \$1.95

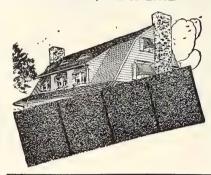
SHINGLES SURFACED

CERTAIN-TEED (Extra Quality) Individual-Blue-Black, Red or Green.

Marked for spacing and nailing. Weight about 245 lbs. Size 8"x12¾". Put up four packages per square. Guaranteed 10 years, per square.....

Certain-teed 4-Width Shingle

Blue-Black, Red or Green.



These shingles, when properly laid, offer weather protection in all climates. They are unaffected by atmospheric changes or by heavy rain or snow. Extreme heat or cold will not materially cause them to expand or contract. As an insulator they keep or contract. As an insulator they keep the house cooler in summer and warmer in winter. Marked exactly 4

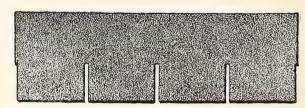
in. from the butt for spacing.

Weight about 196 lbs. Size 10"x32". Put up two packages per square.

Guaranteed 10 years, per square \$5.35

CERTAIN-TEED STRIP SHINGLES

SLATE SURFACED



RED, BLUE BLACK AND GREEN

These shingles possess all the durability, attractiveness, weather protection and fire-resisting qualities of the modern asphalt shingle—plus 50 per cent. or more saving in the cost of application, because they can be laid so quickly.

Four shingles laid at a time—no spacing—no chalk line—one-half less nails—one-half less nail holes—four-fifths less cracks—no painting—no repairs.

CERTAINTEED STRIP SAINGLES are water-proofed, with pure refined asphalt. The wearing surface is natural chipped slate in handsome blue-black red and green colors. The colors are absolutely permanent.

Price, per square.....\$6.25

Certain-teed Hexagonal Shingles



BEAUTY AND PERMANENCE FOR YOUR ROOF

The Certain-teed Hexagonal Slab Shingle is a shingle of beauty and permanence. It is made of highest grade, long-fibered felt, heavily saturated with asphalt, and surfaced with a rugged coat of natural colored crushed slate. This surface cannot fade but will always add the same pleasing touch of color to your home.

Frice, Blue-	-Black, Red, or Green	\$4.85
Color-Blend	L	\$5.10

1.90

GRIFFITH @ TURNER CO



TARRED FELT

Rolls 432 square feet 65 lbs \$2.55.



Slater's Felt

500 sq. ft rolls, 30 lbs., \$1.15

Insulating Paper

500 Square feet rolls, 35 lbs., \$2.15

ROSIN SIZED SHEATHING PAPER

In Rolls of 500 Square Feet Each.

10,10.	Special 1	Prices i	n 10-ro	ll lots	s: also by	the ton.	1.20
40-1b.	Sheathing	Paper,	per rol	i of 5	00 square	feet	
20-lb.	Sheathing	Paper,	per rol	l of 5	00 square	e feet	\$.60



CERTAIN-TEED Asphalt Roof Coating

1	Gallon	Cans			.\$0.90
		Cans			
50	Gallon	Barrels.		٠	.22.00

CERTAIN-TEED Asbestos Roof Coating

1	Gallon	Cans		.\$1.00
5	Gallon	Cans		.\$4.00
50	Gallo	n Barrels		.29,00

Certain-teed Plastic Cement

Leaks in new or old roofs of wood, metal, slate, tile or Leaks in new or old roofs of wood, metal, slate, tile or prepared roofing may be repaired quickly, easily and permanently with Certain-teed Plastic Cement. It is excellent also for flashing around chimneys, metal cornices and skylights; for relining old gutters and metal valleys; and for use at all other points where there are leaks, holes, breaks, or cracks caused by contraction or expansion, or where the material has worn out or broken away.

AAOI	11 0	ar or browe	:11	- 2	z VI	10	LУ.											
1	lb.	Packages.							 					1			. \$.20
5	1b.	Packages.															S	.65
2.0	Ib.	Packages.							 	 								1.70
25	lb.	Packages.							 									2.50
5.0	lb.	Packages.							 									4.50
275	lb.	Packages.									 ۰	ø	٠				1	15.50
450	Ib.	Packages.															2	3.00

GALVANIZED ROOFING NAILS

ROOFING CAPS

Safety First Winans Ladder Jack



The Winans Ladder Jack is absolutely the strongest and best Jack is absolutely the strongest and best made; all other lad-der Jacks are only as strong as the weakest rung of the ladder. Attaching these Jacks Attaching these Jacks on the standard of the ladder instead of the rungs, gives it much greater strength. It can be raised or lowered to any desired height or angle, or reversed to either the outside or under side of the ladder in a minute's time without removing the minute's time with-out removing the plank or scaffolding from the Jack. They are self-locking and adjust themselves to any standard make of ladder. Being made of "Best Grade" 1½ x support one thousand

 $1\frac{1}{2}$ angle steel we guarantee them to support one thousand pounds; net weight but $4\frac{1}{2}$ pounds each, and can be folded into a small compass for convenient carrying.

PRICE PAIR, \$4.50.

Seaman Safety Ladder Brackets



Prevent the top of the ladder from sliding, rolling or being blown over by the wind. Insure safety; save labor (about 2 hours per day per man); make handy place for pots. A valuable aid to carpenters, painters, tinners, millwrights, employees of 1 ight, power and telephone companies and, in fact, to everyone who

power and telephone companies and, in fact, to everyone who uses a ladder.

Quickly and easily adjusted; fit any ladder; work equally well on wood, brick or stone. Span, 42 inches; hold ladder out able iron. Packed one spill Price, \$5.00 a set.

14 inches. Made of best quality malleable iron. Packed one set in a carton (weight 8 lbs.) Our Special Price, \$5.00 a set.

Steel Corrugated Roofing Galvanized



1¼ and 2½-inch corrugations, standard 29 gauge open hearth steel thoroughly galvanized. Made in sheets 26 inches wide; 6, 7, 8, 9 and 10 feet long. 12 foot sheets 25c. a square

Galvanized Ridge	Roll, both	in	corrug	ated	and	plain.
No. 29 Gauge.						
Ridge Roll, Pla						
Ridge Roll, Cor	rugated p	er F	Poot			12

LEAD WASHERS

Per Pound.



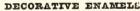


Certain-teed



HOUSE PAINTS

Gal	s. ½ Gals.	Qts.	Pts.
400 Inside Gloss White\$3.	25 \$1.75	\$.91	\$.50
402 Gray Tint 3.		.91	.50
403 Pearl Gray 3.		.91	.50
	25 1.75	.91	.50
407 French Gray 3.		.91	.50
	25 1.75	.91	.50
	25 1.75	.91	.50
	25 1.75	.91	.50
	25 1.75	.91	.50
416 Cream 3.		.91	.50
	25 1.75	.91	.50
	25 1.75	.91	.50
	25 1.75	.91	.50
	25 1.75	.91	.50
	05 1.15	.61	.35
	25 1.75	.91	.50
	20 1.20	.65	.38
	50 1.35	.73	.42
	75 1.48	.79	.44
	60 1.38	.74	.41
	40 1.30	.69	.39
	50 1.35	.73	.41
440 Apple Green 3.		.91	.50
	90 1.55	.82	.45
	45 1.35	.70	.40
	95 1.60	.83	.47
	45 1.85	.95	.53
	50 1.35	.73	.42
TIV INSIDE WHITE:			



DEIOOTATE					
		1/2			⅓
	Gals.	Gals	. Qts.	Pts.	Pts.
25 Snow White-					
Gloss	\$4.95	\$2.60	\$1.35	\$.95	\$.40
25A Snow White-					
Egg Shell	4.60	2.40	1.25	.70	.40
27 Ivory—Gloss	4.15	2.20	1.13	.61	.35
28 Gray—Gloss	4.15	2.20	1.12	.61	.35
29 Cream—Gloss	4.15	2.20	1.13	.61	.35

BATH ROOM ENAMEL

			½ Gals	Qts.	Pts	. 1/2	Pts.
23	White	 	. \$2.40	\$1.25	\$.	70 \$.40

ENAMEL FIRST COATER

Made in white only. Covering capacity about 400 to 500 sq. ft. per gallon, one coat.

Gals. ½ Gals. Qts. Pts. ½ Pts. 24 First Coater...\$3.65 \$1.95 \$1.00 \$.55 \$.33

INTERIOR ENAMEL

		4707070		ATTENDED AND		
	(Fals. 1/2	Gals.	Qts.	Pts. 1/2	Pts.
600	Gloss White.	. \$3.85	2.00	\$1.05	\$.58	\$.35
601	Flat White.,	3.15	1.70	.88	.50	.30
602	Gloss Black	2.70	1.45	.77	.45	.27
604	Light Ivory	3.90	2.05	1.07	.58	.34
605	Pink	3.95	2.10	1.08	.59	.34
606	Puritan Gray	3.90	2.05	1.07	.58	.34
607	Blue	3.90	2.05	1.07	.58	.34
608	Light Blue	3.90	2.05	1.07	.58	.34
609	Cream	3.90	2.05	1.07	.58	.34
610	Green Tint	3.95	2.10	1.08	.59	.34
612	Light Gray	3.95	2.10	1.08	.59	.34

STAIN—Shingle

		5 Gal. Cans	1 Gal. Cans
1	Bungalow Brown	\$1.00	\$1.05
2	Weathered Brown	1.15	1.20
3	Red	1.10	1.15
4	Moss Green	1.30	1.35
5	Sylvan Green	1.40	1.45
6	Silver Gray	1.60	1.65
	White		1.45
	Light Green		1.35











MOTOR CAR ENAMEL

Highest grade products for re-finishing automobiles. Made in all the most popular shades. Easily applied and give a beautiful, hard, lustrous finish. Will dry overnight under ordinary conditions. One quart sufficient for the average car. Gals. 1/2 Gals. Qts. Pts. 1/2 Pts.

962 Light Red \$3.90	\$2.05	\$1.07	\$.58	\$.34
963 Dark Red 4.15	2.20	1.13	.62	.35
964 Blue 4.10		1.12	.61	.35
965 Gray 4.15	2.20	1.13		.35
968 Dark Green. 3.85		1.05	.59	.34
908 Dark Green. 3.03				
970 Black 3.60	1.88	.99	.54	.32
972 Flat Black				
Primer 2.35	1.25	.68	.39	.24
973 Black Fender				
			1.95.4	
Enamel 3.60	1.88	.99	.54	.32
905 Motor Car				
Finishing Var-				
nish (Clear) 2.95	1.57	.83	,37	.28
	2.01	100		
714 Auto Top &				
Seat Dressing				

.30 (Black) ALUMINUM BRONZE PINISH

Packed in two compartment containers, the liquid in one compartment and the powder in the other.

	Pts.	· ½ Pts.	1/4 Pts.
· 710 Aluminum .	\$.80	\$.50	\$.30
COL	BRONZE	PINISH	

Packed in two compartment containers, the liquid STAIN-Varnish

Covering capacity about 500 to 600 sq. ft. per gallon, one coat. Dries dust-free in from 4 to 5 hours and hard overnight.

		1/2			1/2	1/4
	Gals.	Gals.	Qts.	Pts.	Pts.	Pts.
30 Ground Color.	2.60	\$1.40 \$.75 \$.42 \$.25	3 .17
31 Mahogany	2.20	1.20	.65	.38	.23	.15
32 Light Oak	2.25	1.25	-67	.38	.24	.15
33 Dark Oak	2.20	1.20	.65	.38	.23	.15
34 Walnut	2.15	1.20	.63	.37	.23	.15
35 Cherry Red.	2.35	1.25	.68	.39	.24	.15
36 Golden Oak.	2.22	1.25	.67	.38	.24	.15
717	6 DD 3	77 A T T 3	O A TOTAL			

FLAT WALL PAINT Covering capacity, one coat, about 700 sq. ft. per gallon on smooth plaster, and about 500 to 600 sq. ft. per gallon on rough plaster.

000	sq. 1t. per gamon	on ro	ugn pra	ister.		
			1/2			1/2
		Gals.	Gals.	Qts.	Pts.	Pts.
471	Twilight Gray	\$2.25	\$1.25	.67	\$.38	\$.25
472	Turquoise Blue	2.25	1.25	.67	.38	.25
474	Golden Buff	2.35	1.25	.68	.39	.25
476	Royal Tan	2.15	1.17	.63	.37	.25
477	Harvest Brown	2.10	1.18	.62	.35	.25
479	Old Rose	2.45	1.32	.70	.40	.25
482	Seafoam Green	2.40	1.30	.70	.40	.25
483	Leaf Green	2.35	1.25	.68	.40	.25
486	Ivory	2.25	1.25	.68	.38	.25
	Silver Gray		1.25	.68	.38	.25
488	Buff Stone	2.40	1 30	.70	.40	.25
489	Cream	2.25	1.25	.68	.38	.25
490	White	2.10	1.15	.62	.35	.25
494	Pink	2.45	1.32	.70	.40	.25

Especially adapted for staining all kinds of woodwork, not previously oiled, painted or varnished. It brushes on uniformly and penetrates deeply, giving a permanent color to the finished surface.

Covering capacity approximately 800 to 1,000 sq. ft. per gallon, depending on the grade of wood.

		1/2			1/2
	Gals.	Gals.	Qts.	Pts.	Pts.
620 Light Oak	.\$1.65	\$.95 \$.50 \$	30,	\$.20
622 Dark Oak	1.95	1.10	.60	.35	.25
624 Mahogany				.35	.25
626 Walnut	1.85	1.00			.25
626 Walnut	. 1.85	1.00	.55	.35	.25

GRIFFITH @ TURNER CO



BARN, BRIDGE and ROOP PAINT

For outdoor purposes only.

Price Per Gallon

			5-Gal. Cans	1-Gal. Cans.
460	Slate.		\$2.20	\$2.25
161	Red		1.20	1.25
			1.55	1.60
166	Bright	Red	1.60	1.65

BRONZING LIQUID

A vehicle for use in and aluminum powders.

Gals. vehicle for use in connection with gold Qts. 913 Bronzing Liquid ... \$1.75 \$.55 8 32

FLOOR, PORCH AND DECK ENAMEL

Covering capacity about 250 to 300 square feet per gallon, two coats. Dries overnight with an enamel-like finish.

** * C.4	T CON CHANGE-1112	- MELLEN	744.			
		~ 1	2/2	0.4	T) (1/2
		Gals.	Gals.	Qts.	Pts.	Pts.
575	Light Gray	\$3.15	\$1.70 \$.90	\$.50	\$.30
576	Silver Gray	3.15	1.70	.90	.50	.30
577	Stone Gray	3.15	1.70	.90	.50	.30
	French Gray		1.70	.90	.50	.30
579	Medium Lead.	3.15	1.70	.90	.50	.30
580	French Yellow	2.85	1.70	.90	.50	.30
	Dark Oak		1.45	.80	.45	.30
582	Brown	2.70	1.45	.80	.45	.30
583	Dark					
	Mahogany		1.45	.80	.45	.30
	Red		1.55	.85	.45	-30
585	Light Oak	3.15	1.70	.90	.50	.30

RALSOMINE 5 Pound Packages 3 .50.

300		 																											
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WAGON IMPLEMENT AND CARRIAGE PAINT

		Gals	1/2-Gals.	Qts.	Pts.
50	Black	. \$2.25	\$1.25	\$.70	\$.40
51	Yellow	. 2.70	1.45	.80	.45
52	Light Green	. 2.40	1.35	.70	.40
53	Wagon Red	. 2,85	1.50	.80	.45
54	Dark Green	. 2.45	1.35	.70	.40
55	Light Red	. 2.70	1.45	.80	.45

DRYER-JAPAN (Master Painters')

A strong, pale dryer for mixing paints, colors and linseed oil. Will not curdle.

924 Master Paint- Gals. Gals. Qts. Pts. Pts.

ers Japan Dryer \$1.70 \$.95 \$.55 \$.32 \$.20

STOVE and PIPE, ENAMEL

				½ Pts.	
760	Black	 	\$.30	\$.25	\$.15

STUCCO and CEMENT PAINT

															_	_		
500	White	е															Gals. \$3.35	Qts.
501	Ceme	nf	Gra	v									•	•	•		3 35	9.00
502	Dark	Stor	no.	, .	•	٠.	•		•		۰	۰		•	-		5.55	.55
502	Dark	STOI	ne					0	b	 		٠	٠	۰			3.35	.95
503	Caen	Stor	ne	٠.						 							3.35	.95
506	Dark	Red	ī														2.05	0.5

TINNERS' RED

Recommended only for tinners' use in painting gutter spouting, cornices, etc.

		-	-		000.	
				5-Gal.		1-Gal.
469	Tinners'	Red		91.50		Ø1 EE

FLOOR PAINT-Cement Floors

Covering capacity about 500 square feet per gallon, one coat,

	Ga	ls. ½ Gals.	Ots
510	Light Gray \$2	.70 \$1.45	\$.80
911	Stone Gray 2	.75 1.50	.80
512	Torpedo Gray 2	.70 1.45	.80
213	Tan	40 1 20	77.0



BARN, BRIDGE AND ROOF PAINT erd Products Core

CALSOMINE





VARNISHES

Covering capacity all varnishes from 600 to 700 sq. ft. per gallon, one coat. UNIVERSAL VARNISH

UNIVERSAL VARNISH

Unexcelled for all general interior and exterior purposes, This varnish is a very superior product and gives satisfaction in all its many uses. It is pale in color, highly lustrous, waterproof and weather-resisting, very tough and elastic. Can be rubbed and polished if desired. Will dry dust-free in from 4 to 6 hours and hard overnight.

Gals. Gals. Qts. Pts. Pts

Varnish\$3,00 \$1.60 \$.85 \$.50 \$.30

EXTRA COACH VARNISH

Dries dust-free in 6 hours and hard in from 24 to 36 hours.

Gals. Gals. Qts. Pts. Pts. 921 Extra Ceach...\$2.45 1.35 \$.70 \$.40 \$.25

FLAT VARNISH

Dries dust-free in from 3 to 6 hours and hard in from 12 to 18 hours.

Gals. Gals. Qts. Pts. Pts. 915 Flat Varnish. \$2.40 \$1.30 \$.70 \$.40 \$.25

FLOOR VARNISH

Dries dust-free in 3 hours, and dry enough overnight to be walked upon.

Gals. Gals. Qts. Pts. Pts. 911 Floor Varnish. \$2.35 \$1.25 \$.70 \$.40 \$.25 FURNITURE VARNISH

Dries dust-free in from 3 to 4 hours, hard in about 12 hours, and can be rubbed after 48 hours and polished after 72 hours.

Gals. Gals. Qts. Pts. Pts.

923 Furniture
Varnish\$2.70 \$1.45 \$.80 \$ 45 \$.30
INTERIOR SPAR VARNISH

Dries dust-free in about 4 hours, and hard in
18 to 26 hours, rubbed in about 72 hours.

Gals. Gals. Qts. Pts. Pts.
916 Interior Spar. \$2.45 \$1.35 \$.70 \$.40 \$.25

LINOLEUM VARNISH
Dries dust-free in about 3 to 5 hours and hard in 12 to 18 hours.

Gals. Gals. Qts. Pts. Pts.

914 Linoleum Varnish\$2.45 \$1.35 \$.70 \$.40 \$.25

MOTOR CAR FINISHING VARNISH—Clear
Dries dust-free in from four to six hours
and hard over night.

Gals. Gals. Qts. Pts. Pts. 905 Motor Car Finishing Varnish—Clear\$2.95 \$1.60 \$.85 \$.50 \$.30

OUTSIDE SPAR VARNISH

Will dry dust-free in from 4 to 6 hours and hard over night.

Gals. Gals. Qts. Pts. Pts. Covering capacity of all varnishes from PAINT AND VARNISH REMOVER

12
910 Outside Spar. \$3.00 \$1.60 \$.85 \$.50 \$.30

Covering capacity of all varnishes from PAINT AND VARNISH REMOVER

936 Paint and Varnish Remover

nish Remover.\$1.90 \$1.05 \$.60 \$.35 \$.25

POLISH—Auto and Furniture

A clean liquid polish for use on highly finished surfaces.

1-Gal. Per Dozen Bottles Cans 16-Oz. 12-Oz. 4-Oz

715 Certainteed Polish .\$1.60 \$3.45 \$3.15 \$2.00

740 Black Qts. Pts. ½ Pts. 741 Green .60 .35 \$.25 SHELLAC

Pure Shellac, Cut in alart.

Pure Shellac. Cut in alcohol.

Gals. ½ Gals. Qts. Pts
931 Orange ...\$3.50 \$2.25 \$1.15 \$7.00
932 White 4.00 2.50 1.35 .75 932 White 4.00 2.50 SHELLAC SUBSTITUTE

Will serve every purpose where shellac has heretofore been used. Dries dust-free in about one hour and hard enough overnight to sandpaper. 930 Shellac

Gals. ½ Gals. Qts. Pts. ½ Pts. \$1.75 \$1.00 \$.55 \$..35 \$.25 Substitute

Baby Chicks

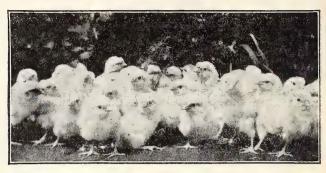
Bred to lay from big, healthy stock. We start shipping about March 1st, and will continue until June 1st.

We will commence booking orders in February for future shipment, so, send in your order early to get prompt service.

Owing to the perishable nature of Baby Chicks, we ask orders to be accompanied with cash or money-order.

Prices for March subject to change without notice, in the following strains, only:

25 SINGLE COMB WHITE LEGHORNS\$4.	5	50	100
			\$15.00
SINGLE COMB BARRED LEGHORNS 4.	00	8.00	15.00
BARRED PLYMOUTH ROCKS 4.	.50	9.00	17.00
RHODE ISLAND RED 4.	50	9.00	17.00



APRIL and MAY prices\$1.00 per 100 less than above JUNE prices\$1.00 per 100 less than May prices.

All prices prepaid by parcel post and subject to change without notice All orders for Baby Chicks, subject to our confirmation. Kindly send cash or money-order with your orders, please.

Geo. H. Lee's---The Gizzard Capsule

This capsule has an insoluble coating which carries it to the gizzard intact. There it is broken or ground up, releasing its contents for full action in gizzard and intestines. Because of the medicine not coming in contact with the mucous lining of the mouth, throat, crop and glandular stomach, the fowls are less apt to be sickened or thrown off feed. It is important that hard grit be furnished the birds.

These capsules have shown, on hundreds of tests, proven by post-mortems, an average one dose efficiency of better than 95% on Tape and Round Worms, where the infestation does not exceed 50 worms per bird; with greater numbers present, two doses a week apart, are needed. On Pin Worms, inhabiting the ceca, which are off-shoots from the intestines and with but one opening, the efficiency ranges from 0% to 100% and depends entirely upon whether the ceca opening is plugged, congested or otherwise partially or entirely closed.

Directions:—Hold the bird with head pointing straight up and mouth open. Dip a capsule in linseed oil or any kind of vegetable or animal oil, and drop the capsule far back in the mouth into the throat. Two capsules may be used if fowls are very heavily infested with worms; or the dose of one capsule may be repeated in ten days. It is well to give the fowls a dose of Epsom Salts in wet mash on the evening of the day following administration of the capsule—one pound of salts fo each 100 full grown fowls or 200 half grown.

....Important:—See that the birds are supplied with hard "grit." Grit is necessary at all times, but especially when these insoluble capsules are used.

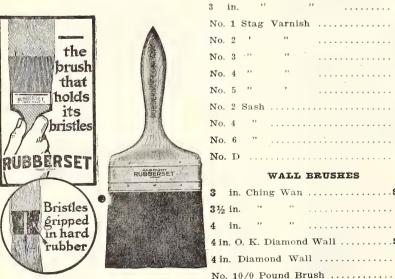
insoluble capsules are used.

VARNISH BRUSHES in. Harmony Varnish \$.15

50 Capsules in Box\$1.00

Simplex

PAINT BRUSHES 1 1/2 in.



.30 .35 in. Loval .45 21/2 in. .65 in. .30 No. 1 Stag Varnish No. 2 ' .40 No. 3 ." .65 No. 4 No. 5 1.00 .20 No. 2 Sash No. 4 .25 No. 6 .35 No. D55 WALL BRUSHES in. Ching Wan \$.75 31/2 in. 4 in. O. K. Diamond Wall\$2.25



SIMPLEX WATERPROOF PLANT LABEL

Made of Celluloid with transparent mica cover. Including copper wire for attaching.

Per 100 \$3.00 No. 1-Per Doz. \$.45 No. 2-Per Doz. .80 Per 100 5.00 No. 3-Per Doz. 1.00 Per 100 7.00

SIMPLEX GARDEN LABELS With stake 24-in. long ,ea.....\$.25

Postage Extra.

PRUNING SAW

No. 16-14 inches\$2.25



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FERTILIZERS FOR THE FARM LAWN and GARDEN

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some land being deficient in Potash, Phosphoric Acid or some other ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Ammoniated Alkaline Plant Food

Our old stand-by for summer crops: is used largely on Potatoes, Corn, Tobacco and other summer crops; stands the hot, dry weather particularly well.

Price Per Bag, \$2.50

5-pound	Packages													\$.2	5
10-pound	Packages				٠										.4	0
50-pound	Packages	4		۰	٠		2			0				1	1.5	0
100-pound	Packages					a				۰				9	2.5	0

Write for Special Prices in Ton Lots

Ammoniated Butchers' Bone Phosphate

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes. A good article at a low price.

Price Per Bag, \$3.00

Write for Special Prices in Ton Lots

Animal Bone Phosphate

Made from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas; Cabbage, Wheat and Grass. It contains the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price Per Bag, \$3.60

Write for Special Prices in Ton Lots

Dried Blood

Dried Blood is a quick-acting fertilizer. Running high in Nitrogen or Ammonia. Fine for greenhouse, potted plants and gar-

Price Per 5-Lb. Package, \$.50 25-Lb. Package, 2.00

Hydrated Lime For Improving the Soil

Hydrated Lime is a soil sweetener and is than any other lime product which can claim to be at all competitive, and is more easily handled.

There has been an enormous increase in

There has been an enormous increase in its use in recent years, keeping pace with the growing of clover and alfalfa.

Hydrated Lime, while an indirect plant food, is as essential to the maximum production of some crops as is direct plant

In addition to producing chemical changes, Hydrated Lime also has mechanical effects, making clay soils more friable and more open to both air and water, and so less susceptible to extreme dry and wet weather. In sandy soil the action is practically reverse; Lime in such soil has a cementing tendency and helps the soil to retain moisture.

We recommend the free use of Hydrated Lime on lawns.

Per Bag of 50 Pounds, 75c.

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Special Potato Fertilizer

Made especially for potatoes, running high in Potash and containing Ammonia and Available Phosphoric Acid in proper proportion for good results on this crop.

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Land Plaster

In Bags, 200 Lbs. Each, Per Bag, \$2.50

Fine-Ground Fish Ground Tankage High-Grade Acid Phosphate

Kainit, Muriate of Potash Nitrate Soda Sulphate of Ammonia

> Agricultural Lime Write for Prices

PULVERIZED SHEEP MANURE

Has No Rival

Remember that Pulverized Sheep Manure is aged for several years and will not burn your plants, no matter in what quantities you use it-but as it is highly concentrated, a little goes a long way.

Used for top dressing, mulching,

Valuable in a run-down city garden, as it adds humus and vegetable mat-ter which are essential for all vegeta-

It may also be used at the rate of 20 to 50 pounds to every 1000 square feet in a dry form, or 500 to 1000 pounds per acre.

Makes the richest and safest liquid manure, using 1 pound to 5 gallons of water once a week.

For Greenhouse Plants mix one part to about 10 parts of soil.

5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$2.75.

Special price in one-half ton, tons and carload.

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5-pound	Packages.		 	 . ,	٥					. 3	.30
	Packages.										
	Packages.										
100-pound	Packages.			 	:	 p	,		٠		3.00

Price Per Bag, \$5.25 Write for Special Prices in Ton Lots

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Splendid article for building up worn-out soil, lawns, etc.

Lb., 6c; 10 lbs., 50c; 25 lbs., \$1.25; 100 lbs., \$3.25; 167 lbs., \$5.50.

NITRATE OF SODA

5-pound	Packages\$.50
	Packages	.85

GRITCO XL PLANT FOOD

GRITCO XL Plant Food, a complete food for flowers and lawns, a great stimulator and builder-up of the soil.

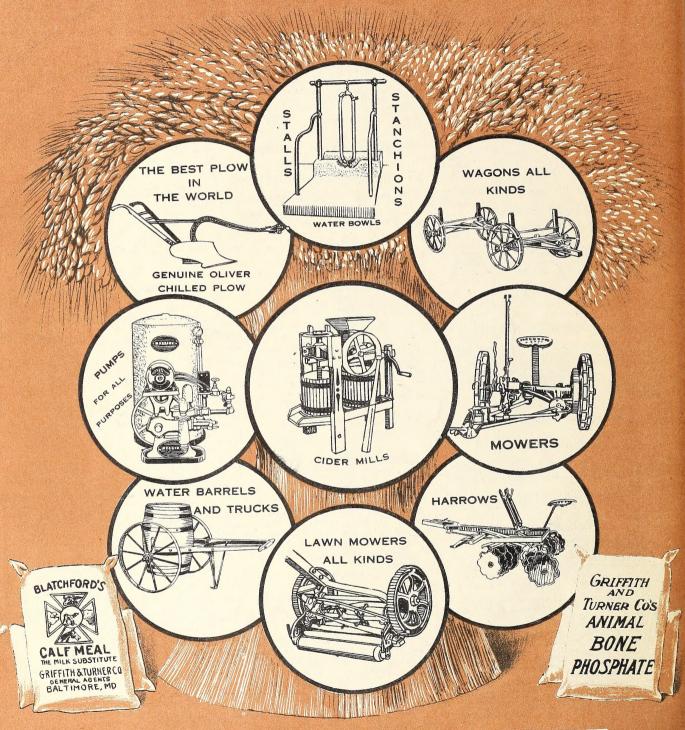
We have spared no expense in preparing a complete, well-balanced Plant Food for use on Flowers and Lawns, and we highly recommend the use of GRITCO XL Plant

It is a highly concentrated preparation and must be used according to directions. It is our desire to have GRITCO XL Plant Food in the hands of every Flower and Lawn Lover, and in order to do so we offer a one-pound package of GRITCO XL Plant Food absolutely free with an order for Flower Seed amounting to \$2.00. It contains active Ammonia, Available Phosphoric Acid and Soluble Potash; in fact, all the elements-required to promote the growth and stimulate the plant, and it will give very satisfactory results. It is made of especially selected materials, no will give very satisfactory results. It is made of especially selected materials, no expense having been spared to make it the best fertilizer possible for the purpose on

the market.

1-pound	Cans				 \$.25
1-pound						
5-pound						
5-pound	Can by	Mail	 0	 ۰		.85
10-pound	Cans				 - 1	.25
25-pound	Bag		 ,		 2	.25
50-pound	Bag				 3	.50

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